

SDMS DocID

282311

Olin Corporation

tecords Center

Wilmington, Massachusetts Facility Wells 64 #

Supplemental Phase II Report

Attachment A

Laboratory Analytical Data

Volume I: 1/12/95 to 10/18/95 Data

June 1997

Prepared by:









SAMPLES 1/21/00

DATE_TAKEN MATRIXTYPE	QCed	COCSample	Location	LabSampleID
1/11/95 GW	Y	GW-40-D	GW-40D	WL0048-6 S000002
1/11/95 GW	V	GW-40-S	GW-40S	WL0048-5 S000001
1/11/95 GW	~	GW-42-D	GW-42D	WL0048-8 S000005
1/11/95 GW	~	GW-42-D	GW-42D	WL0048-1 S000006
1/11/95 _i GW	~	GW-42-S	GW-42S	WL0048-7 S000003
1/11/95 GW	V	GW-50-S	GW-50S	WL0048-4 S000007
1/12/95.GW	~	GW-50-D	GW-50D	WL0054-1 S000010
1/12/95 GW	✓	GW-58-D	GW-58D	WL0054-5 S000013
1/12/95 GW		GW-58-S	GW-58S	WL0054-4 S000012
1/12/95 GW	<u>~</u>]	GW-62-D	GW-62D	WL0054-3 S000009
1/12/95 GW	✓	GW-62-S	GW-62S	WL0054-2 S000008
1/13/95 GW	/	GW-36	GW-36	WL0062-3 S000016
1/13/95 GW	✓	GW-45-D	GW-45D	WL0062-1 S000014
1/13/95 GW	✓	GW-45-S	GW-45S	WL0062-2 S000015
1/16/95 GW	✓	GW-62-BR	GW-62BR	WL0069-6 S000011
1/16/95 GW	✓]	GW-62-BRD	GW-62BRD	42836-006 S0000011
1/16/95 GW	✓	GW-64-D	GW-64D	WL0069-5 S000020
1/16/95 GW	✓	GW-64-S	GW-64S	WL0069-4 S000019
1/16/95 GW	_	GW-64-S	GW-64S	WL0069-1 S000018
2/3/95 GW	y	GW-10-S	GW-10S	42785-002 S000009
2/3/95 GW	7	GW-11	GW-11	42785-004 S000012
2/3/95 GW	✓	GW-19-S	GW-19S	42773-003 S000003
2/3/95 GW	✓	GW-24	GW-24	42785-001 S000010
2/3/95 GW	✓	GW-25	GW-25	42773-006 S000007
2/3/95 GW	Y	GW-26	GW-26	42785-003 S000008
2/3/95 GW	~	GW-35-S	GW-35S	42773-002 S000002
2/3/95 GW	_	GW-39	GW-39	42773-005 S000006
2/3/95 GW	✓	GW-42-S	GW-42S	42773-001 S000001
7/18/95 GW		GW-42-S	GW-42S	WL1085-6 S000003
7/19/95 GW		EQUIPMENT BLANK	QC-SAMPLE	WL1098-12 S000010
7/19/95 GW	V	GW-08	GW-8	WL1098-22 S000008
7/19/95 GW	✓	GW-08	GW-8	WL1098-10 S000008
7/19/95 GW	Y	GW-42-S	GW-42S	WL1098-5 S000003
7/19/95 GW	✓	GW-42-S	GW-42S	WL1098-17 S000003
7/19/95 GW	✓	GW-50-S	GW-50S	WL1098-9 S000007
7/19/95 GW	V	GW-50-S	GW-50S	WL1098-21 S000007
7/19/95 GW	Y	GW-56-S	GW-56S	WL1098-23 S000009
7/19/95 GW	Y	GW-56-S	GW-56S	WL1098-11 S000009
7/19/95 GW	~	GW-76-S	GW-76S	WL1098-18 S000004
7/19/95 GW		GW-76-S	GW-76S	WL1098-6 S000004
7/19/95 GW	Y	GW-77-S	GW-77S	WL1098-4 S000002
7/19/95 GW		GW-77-S	GW-77S	WL1098-13 S000001
7/19/95 GW		GW-77-S	GW-77S	WL1098-16 S000002
7 /19/95 GW		GW-77-S	GW-77S	WL1098-1 S000001
7/19/95 GW		GW-78-S	GW-78S	WL1098-19 S000005
7/19/95 GW	~	GW-78-S	GW-78S	WL1098-7 S000005
7/19/95 GW	<u> </u>	GW-79-S	GW-79S	WL1098-8 S000006

SAMPLES 1/21/00

DATE_TAKEN MATRIXTYPE	QCed	COCSample	Location	LabSampleID
7/19/95 GW	/	GW-79-S	GW-79S	WL1098-20 \$000006
7/19/95 SW	~	SW-12	GSW-12	WL1098-25 S000011
7/19/95 SW	~	SW-12	GSW-12	WL1098-32 S000011
7/19/95 SW	/	SW-14	SW-18	WL1098-36 S000014
7/19/95'SW	V	SW-14	SW-18	WL1098-28 S000014
7/19/95 SW	✓	SW-14	SW-18	WL1098-29 S000014
7/19/95,SW	/	SW-14	SW-18	WL1098-35 S000014
7/19/95/SW	✓	SW-16	SW-9	WL1098-27 S000013
7/19/95 SW	✓	SW-16	SW-9	WL1098-34 S000013
7/19/95 SW	V	SW-17	SW-11	WL1098-26 S000012
7/19/95 SW	V	SW-17	SW-11	WL1098-33 S000012



Volume I - Laboratory Analytical Data

01/12/95 to 10/18/95

Work Order No.	Media
WL-0055,42786	GW
WL-0054,42785	GW
WL-0062, 42801	GW
WL-0077, 42830	GW
42801	GW
42830	GW
42836	GW
WL-0185, 42953	GW
WL-0195,42965	GW
WL-0202	SED
42953	GW
WL-0201	GW
42965	GW
WL-0226	SED
WL-0817	SED
43911	GW&SW
TOC	GW
WL-0668	GW
WL-0682	GW
WL-0848	GW
WL-0925	SED
WL-1098	GW
WL-1389	SW
WL-1612	GW
WL-1613	GW
WL-1595	GW
WL-1622	GW
WL-1628	GW&SW

GW = Groundwater SW = Surface Water MLT = Multiple Media SED = Sediment



Lab Number: WL-0055-1 Report Date: 01/30/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS

> 51 EAMES STREET WILMINGTON, MA 01887

> > REPORT OF ANALYTICAL RESULTS

Page 1 of 4

SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED DATE RECEIVE			
GW-42D PRE-PURGE	A	Aqueous CLIENT			01/11/95		01/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Dissolved	5200	mg/L	5000	0.015	200.7/6010	01/23/95	KX	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 01/20/95 by WD using 3010

01/30/95

LJO/ejnejn/kew LA20IA1

CC: OLIN (TN)

ATIN: STEVE MORROW BCM: RICK SACKS PTI: COLLEEN CUSHING



Lab Number : WL-0055-2 Report Date: 01/30/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 2 of 4

SAMPLE DESCRIPTION	M	MATRIX			SAMPLED BY			RECEIVED	
GW-50D PRE-PURGE	A	Aqueous			CLIEVI		5	01/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/23/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 01/20/95 by WD using 3010

01/30/95

LJO/ejngbp(dw)/kew LA20IA1

CC: OLIN (TN)

ATTN:STEVE MORROW BCM:RICK SACKS PTI:COLLEEN CUSHING



Lab Number: WL-0055-3

Report Date: 01/30/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	м	ATRIX		SAMPLE	D BA	SAMPLED I	RECEIVED		
GW-62D PRE-PURGE	А	queous		CLIENT		01/12/95		01/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Dissolved	<0.015	mg/L	1.0	C.015	200.7/6010	01/23/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 01/20/95 by WD using 3010

01/30/95

LJO/ejngbp(dw)/kew LA20IA1

CC: OLIN (IN)

ATTN: STEVE MORROW BCM:RICK SACKS PTI: COLLEEN CUSHING



Lab Number: WL-0055-4 Report Date: 01/30/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
GW-58D PRE-PURGE	Α.	Aqueous CLIENT			01/12/9	01/12/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/23/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 01/20/95 by WD using 3010

01/30/95

LJO/ejngbp(dw)/kew LA20IA1

CC: OLIN (TN)

ATIN: STEVE MORROW BCM: RICK SACKS PTI: COLLEEN CUSHING Respectfully submitted,

PACE, INC.

Supervisor, Client Services



Lab Number : WL-0054-1 Report Date: 02/02/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 1 of 15

SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
S000010		Aqueous		CITEM	CITEM		5	01/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	0.11	mg/L	1.0	0.10	200.7/6010	01/23/95	KW	1	
Arsenic, Dissolved	<0.025	mg/L	5.0	0.005	206.2/7060	01/24/95	KW	2,3	
Barium, Dissolved	0.010	mg/L	1.0	0.005	200.7/6010	01/23/95	KW	1	
Calcium, Dissolved	410	mg/L	5.0	0.050	200.7/6010	01/23/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/23/95	KW	1	
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	01/16/95	KW	4,5	
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	01/31/95	GB		
Iron, Dissolved	0.26	mg/L	1.0	0.025	200.7/6010	01/23/95	KW	1	
Lead, Dissolved	<0.025	mg/L	5.0	0.005	239.2/7421	01/23/95	KW	2,3	
Magnesium, Dissolved	97.	mg/L	1.0	0.050	200.7/6010	01/23/95	KW	1	
Manganese, Dissolved	13	mg/L	5.0	0.005	200.7/6010	01/26/95	KW	1	
Potassium, Dissolved	46	mg/L	1.0	0.50	200.7/6010	01/26/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejngbp(dw)/kew LA20IA1

CC: OLIN (TN)

ATTN:STEVE MORROW BOM:RICK SACKS PTI:COLLEEN CUSHING

⁽¹⁾ Sample Preparation on 01/20/95 by WD using 3010

⁽²⁾ Sample Preparation on 01/20/95 by WD using 3020

⁽³⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽⁴⁾ Sample Preparation on 01/13/95 by GFB using 7195

⁽⁵⁾ Sample preparation was begun 65 minutes after the expiration of the analytical hold time.



Lab Number : WL-0054-1

Report Date: 02/02/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 2 of 15

SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED DATE RECEIVE			
S000010		Aqueous		CLIENT		01/12/95		01/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Silicon, Dissolved Sodium, Dissolved	6.3 1500	mg/L mg/L	2.0 50		200.7/6010 200.7/6010		KW	1 2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejngbp(dw)/kew LA20IA1

CC: OLIN(TN)

ATIN: STEVE MORROW BCM:RICK SACKS PTI: COLLEEN CUSHING

⁽¹⁾ Sample Preparation on 01/27/95 by WD using 3010

⁽²⁾ Sample Preparation on 01/20/95 by WD using 3010



Lab Number: WL-0054-1 Report Date: 02/02/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPLEC BY		SAMPLED I	RECEIVED	
S000010	Ac	Aqueous				01/12/95		01/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BA	NOTES
Bicarbonate as HCO3	550.	mg/L	1.0	20	APHA 406C	01/17/95	ΩM	
Bromide	<2.0	mg/L	1.0	2.0	320.1	01/23/95	NN	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Nitrate as N, Dissolved	0.77	mg/L	1.0	0.050	353.2	01/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	01/13/95	BC	
Organic Carbon, Dissolved (DOC)	33	mg/L	1.0	1.0	415.1	01/16/95	BC	
Phosphorus, Dissolved as P	0.19	mg/L	1.0	0.10	365.4	01/18/95	BC	1
Solids - Filterable Residue (TDS)	6600	mg/L	5.0	10	160.1	01/17/95	BC	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejnbac/gbp(dw)

CC: OLIN (TN)

ATIN:STEVE MORROW BOM:RICK SACKS PTI:COLLEEN CUSHING

⁽¹⁾ Sample Preparation on 01/17/95 by BAC

⁽²⁾ Sample Preparation on 01/16/95 by JF



Lab Number: WL-0054-2 Report Date: 02/02/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 4 of 15

SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
S000008	Aqueous		CLIEN	CLIENT		5	01/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	01/23/95	KW	1
Arsenic, Dissolved	0.012	mg/L	1.0	0.005	206.2/7060	01/24/95	KW	2
Barium, Dissolved	0.011	mg/L	1.0	0.005	200.7/6010	01/23/95	KW	1
Calcium, Dissolved	36	mg/L	1.0	0.050	200.7/6010	01/23/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/23/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	01/16/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	01/31/95	ŒB	
Iron, Dissolved	11	mg/L	1.0	0.025	200.7/6010	01/23/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	01/23/95	KW	2
Magnesium, Dissolved	5.5	mg/L	1.0	0.050	200.7/6010	01/23/95	KW	1
Manganese, Dissolved	5.0	mg/L	1.0	0.005	200.7/6010	01/25/95	KW	1
Potassium, Dissolved	7.8	mg/L	1.0	0.50	200.7/6010	01/26/95	KW	1
Silicon, Dissolved	5.6	mg/L	2.0	0.10	200.7/6010	01/30/95	KW	4

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejngbp(dw)/kew LA20IA1

CC: OLIN (TN)

ATIN: STEVE MORROW BCM:RICK SACKS PTI: COLLEEN CUSHING

⁽¹⁾ Sample Preparation on 01/20/95 by WD using 3010

⁽²⁾ Sample Preparation on 01/20/95 by WD using 3020

⁽³⁾ Sample Preparation on 01/13/95 by GFB using 7195

⁽⁴⁾ Sample Preparation on 01/27/95 by WD using 3010



Lab Number: WL-0054-2 Report Date: 02/02/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX			SAMPLED BY		SAMPLED DATE RECEIVED		
5000008		Aqueoua		CITEM		01/12/95		01/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sodium, Dissolved	28	mg/L	1.0	0.10	200.7/6010	01/23/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 01/20/95 by WD using 3010

02/02/95

LJO/ejngbp(dw)/kew LA20IA1

CC: OLIN (TN)

ATTN: STEVE MORROW BCM:RICK SACKS PTI: COLLEEN CUSHING



Lab Number: WL-0054-2 Report Date: 02/02/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	TRIX		SAMPLED	BY	SAMPLED DATE RECEIVED			
S000008	Ac	Aqueous CLIENT				01/12/95		01/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate as HCO3	71.	mg/L	1.0	20	APHA 406C	01/17/95	CM.		
Bromide	2.2	mg/L	1.0	2.0	320.1	01/23/95	NN		
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	01/17/95	CM		
Nitrate as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	01/17/95	BC		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	01/13/95	BC		
Organic Carbon, Dissolved (DOC)	3.8	mg/L	1.0	1.0	415.1	01/16/95	BC		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	01/18/95	BC	1	
Solids - Filterable Residue (TDS)	270.	mg/L	1.0	10	160.1	01/16/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejngbp(dw)

CC: OLIN (TN)

ATTN:STEVE MORROW BOM:RICK SACKS PTI:COLLEEN CUSHING

⁽¹⁾ Sample Preparation on 01/17/95 by BAC

⁽²⁾ Sample Preparation on 01/13/95 by JF



Lab Number: WL-0054-3 Report Date: 02/02/95

PO No.

: SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET

CLIENT: DON CAMERON

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED D	ATE	RECEIVED	
S000009	Aqueous		CLIEN	CLIENT		5	01/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	01/23/95	КW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	01/24/95	KW	2
Barium, Dissolved	0.010	mg/L	1.0	0.005	200.7/6010	01/23/95	KW	1
Calcium, Dissolved	29	mg/L	1.0	0.050	200.7/6010	01/23/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/23/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	01/16/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	01/31/95	GB	
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	01/23/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	01/23/95	KW	2
Magnesium, Dissolved	9.3	mg/L	1.0	0.050	200.7/6010	01/23/95	KW	1
Manganese, Dissolved	1.4	mg/L	1.0	0.005	200.7/6010	01/24/95	KW	1
Potassium, Dissolved	2.7	mg/L	1.0	0.50	200.7/6010	01/24/95	KW	1
Silicon, Dissolved	4.2	mg/L	1.0	0.10	200.7/6010	01/30/95	KW	4

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejngbp(dw)/kew LA20IA1

CC: OLIN(TN)

ATTN:STEVE MORROW BOM:RICK SACKS PTI:COLLEEN CUSHING

FAX 207-775-4029

⁽¹⁾ Sample Preparation on 01/20/95 by WD using 3010

⁽²⁾ Sample Preparation on 01/20/95 by WD using 3020

⁽³⁾ Sample Preparation on 01/13/95 by GFB using 7195

⁽⁴⁾ Sample Preparation on 01/27/95 by WD using 3010



Lab Number: WL-0054-3

Report Date: 02/02/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX	SAMPLED DAT	E RECEIVED		
S000009		Aqueous	CLIENT	01/12/95	01/12/95	
PARAMETER	RESULT	UNITS DE	*PQL METHOD	ANALYZED B	Y NOTES	
Sodium, Dissolved	42	mg/L 1.0	0.10 200.7/60	010 01/23/95 K	W 1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 01/20/95 by WD using 3010

02/02/95

LJO/ejngbp(dw)/kew LA20IA1

CC: OLIN (TN)

ATIN: STEVE MORROW BOM: RICK SACKS PTI:COLLEEN CUSHING



Lab Number: WL-0054-3 Report Date: 02/02/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS

> 51 EAMES STREET WILMINGTON, MA 01887

> > REPORT OF ANALYTICAL RESULTS

Page 9 of 15

SAMPLE DESCRIPTION	M	ATRIX		SAMPLED	SAMPLED DATE RECEIVED			
S000009	Ac	Aqueous C			CLIENT		5	01/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BA	NOTES
Bicarbonate as HCO3	58.	mg/L	1.0	20	APHA 406C	01/17/95	СМ	
Bromide	<2.0	mg/L	1.0	2.0	320.1	01/23/95	NN	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Nitrate as N, Dissolved	0.32	mg/L	1.0	0.050	353.2	01/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	01/13/95	BC	
Organic Carbon, Dissolved (DOC)	2.1	mg/L	1.0	1.0	415.1	01/16/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	01/18/95	BC	1
Solids - Filterable Residue (TDS)	290.	mg/L	1.0	10	160.1	01/16/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejngbp(dw)

CC: OLIN (TN)

ATTN:STEVE MORROW BCM:RICK SACKS PTI:COLLEEN CUSHING

⁽¹⁾ Sample Preparation on 01/17/95 by BAC

⁽²⁾ Sample Preparation on 01/13/95 by JF



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-0054-4 Report Date: 02/02/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED D	RECEIVED			
S000012		Aqueous		CLIEN	CLIENT		5	01/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	01/23/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	01/24/95	KW	2	
Barium, Dissolved	0.025	mg/L	1.0	0.005	200.7/6010	01/23/95	KW	1	
Calcium, Dissolved	16	mg/L	1.0	0.050	200.7/6010	01/23/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/23/95	KW	1	
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	01/16/95	KW	3	
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	01/31/95	GB		
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	01/23/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	01/23/95	KW	2	
Magnesium, Dissolved	2.6	mg/L	1.0	0.050	200.7/6010	01/23/95	KW	1	
Manganese, Dissolved	0.14	mg/L	1.0	0.005	200.7/6010	01/24/95	KW	1	
Potassium, Dissolved	4.1	mg/L	1.0	0.50	200.7/6010	01/24/95	KW	1	
Silicon, Dissolved	4.7	mg/L	1.0	. 0.10	200.7/6010	01/30/95	KW	4	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejngbp (dw) /kaw LA20IA1

CC: OLIN (TN)

ATIN:STEVE MORROW BCM:RICK SACKS PII:COLLEEN CUSHING

⁽¹⁾ Sample Preparation on 01/20/95 by WD using 3010

⁽²⁾ Sample Preparation on 01/20/95 by WD using 3020

⁽³⁾ Sample Preparation on 01/13/95 by GFB using 7195

⁽⁴⁾ Sample Preparation on 01/27/95 by WD using 3010



Lab Number: WL-0054-4 Report Date: 02/02/95

PO No.

: SE-CH-827-VAR-C

OLIN CHEMICALS
51 EAMES STREET

CLIENT: DON CAMERON

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED D	RECEIVED			
5000012	Aqueous			CLIEN	Т	01/12/95		01/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sodium, Dissolved	96	mg/L	2.0	0.10	200.7/6010	01/24/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 01/20/95 by WD using 3010

02/02/95

LJO/ejngbp(dw)/kaw LA20IA1

CC: OLIN (TN)

ATIN:STEVE MORROW BOM:RICK SACKS PTI:COLLEEN CUSHING



Lab Number: WL-0054-4 Report Date: 02/02/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED	SAMPLED DATE RECEIVED			
S000012	Ac	Aqueous			CLIENT		5	01/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	<20	mg/L	1.0	20	APHA 406C	01/17/95	αM	
Bromide	<2.0	mg/L	1.0	2.0	320.1	01/23/95	NN	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Nitrate as N, Dissolved	3.4	mg/L	4.0	0.050	353.2	01/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	01/13/95	BC	
Organic Carbon, Dissolved (DOC)	1.1	mg/L	1.0	1.0	415.1	01/16/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	01/18/95	BC	1
Solids - Filterable Residue (TDS)	330.	mg/L	1.0	10	160.1	01/16/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejngbp(dw)

CC: OLIN(TN)

ATTN: STEVE MORROW BCM: RICK SACKS PTI: COLLEEN CUSHING

⁽¹⁾ Sample Preparation on 01/17/95 by BAC

⁽²⁾ Sample Preparation on 01/13/95 by JF



Lab Number: WL-0054-5 Report Date: 02/02/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED D	RECEIVED		
5000013	Aqueous		CLIEN	CLIENT		5	01/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BA	NOTES
Aluminum, Dissolved	0.44	mg/L	1.0	0.10	200.7/6010	01/23/95	KM	1
Arsenic, Dissolved	<0.025	mg/L	5.0	0.005	206.2/7060	01/24/95	KW	2,3
Barium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	01/23/95	KW	1
Calcium, Dissolved	280	mg/L	5.0	0.050	200.7/6010	01/23/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/23/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	01/16/95	KW	4
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	01/31/95	ŒB	
Iron, Dissolved	77	mg/L	5.0	0.025	200.7/6010	01/24/95	KW	1
Lead, Dissolved	<0.025	mg/L	5.0	0.005	239.2/7421	01/26/95	KW	2,3
Magnesium, Dissolved	84.	mg/L	1.0	0.050	200.7/6010	01/23/95	KW	1
Manganese, Dissolved	29	mg/L	5.0	0.005	200.7/6010	01/24/95	KW	1
Potassium, Dissolved	29	mg/L	1.0	0.50	200.7/6010	01/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejngbp(dw)/kaw LA20IA1

CC: OLIN (TN)

ATIN:STEVE MORROW BCM:RICK SACKS PTI:COLLEEN CUSHING

⁽¹⁾ Sample Preparation on 01/20/95 by WD using 3010

⁽²⁾ Sample Preparation on 01/20/95 by WD using 3020

⁽³⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽⁴⁾ Sample Preparation on 01/13/95 by GFB using 7195



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-0054-5 Report Date: 02/02/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED I	RECEIVED	
S000013		Aqueous	3	CLIEN	T	01/12/9	95	01/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved Sodium, Dissolved	11 1000	mg/L mg/L	5.0 20		200.7/6010 200.7/6010			_

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) Sample Preparation on 01/27/95 by WD using 3010
- (2) Sample Preparation on 01/20/95 by WD using 3010

02/02/95

LJO/ejngbp (dw) /kaw LA20IA1

CC: OLIN(TN)

ATTN:STEVE MORROW BOM:RICK SACKS PTI:COLLEEN CUSHING



Lab Number: WL-0054-5 Report Date: 02/02/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 15 of 15

SAMPLE DESCRIPTION	MATRIX SAMPLED BY SAMPLED DATE				RECRIVED			
S000013	Ac	Aqueous CLIENT				01/12/9	01/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	130.	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Bromide	<2.0	mg/L	1.0	2.0	320.1	01/23/95	NN	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Nitrate as N, Dissolved	0.082	mg/L	1.0	0.050	353.2	01/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	01/13/95	BC	
Organic Carbon, Dissolved (DOC)	46	mg/L	1.0	1.0	415.1	01/16/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	01/18/95	BC	1
Solids - Filterable Residue (TDS)	5500	mg/L	5.0	10	160.1	01/17/95	BC	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 01/17/95 by BAC

(2) Sample Preparation on 01/16/95 by JF

02/02/95

LJO/ejnbac/gbp(dw)

CC: OLIN(IN)

ATIN:STEVE MORROW
BCM:RICK SACKS
PTI:COLLEEN CUSHING

Respectfully submitted,

PACE, INC.

Laura J. O'Meara

James Or Mano

Supervisor, Client Services



Lab Number : WL-0062-1 Report Date: 02/02/95

0 No. - 9

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
S000014		Aqueous		CLIEN	CLIENT		5	01/13/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	1200.	mg/L	50	0.10	200.7/6010	01/25/95	KW	1	
Arsenic, Dissolved	<0.25	mg/L	50	0.005	206.2/7060	01/24/95	KW	2,3	
Barium, Dissolved	0.037	mg/L	1.0	0.005	200.7/6010	01/25/95	KW	1	
Calcium, Dissolved	690.	mg/L	20	0.050	200.7/6010	01/25/95	KW	1	
Chromium, Dissolved	710	mg/L	200	0.015	200.7/6010	01/26/95	KW	1	
Chronium, Hexavalent	16	mg/L	5.0	0.015	6010	01/16/95	KW	4	
Chromium, Trivalent	690	mg/L	1.0	0.015	Calculation	01/31/95	GB		
Iron, Dissolved	1700	mg/L	200	0.025	200.7/6010	01/26/95	KW	1	
Lead, Dissolved	<0.25	mg/L	50	0.005	239.2/7421	01/26/95	KW	2,3	
Magnesium, Dissolved	1000.	mg/L	20	0.050	200.7/6010	01/25/95	KW	1	
Manganese, Dissolved	310.	mg/L	50	0.005	200.7/6010	01/25/95	KW	、 1	
Potassium, Dissolved	100	mg/L	5.0	0.50	200.7/6010	01/27/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejngbp(dw)/kaw LA23IA1

CC: OLIN (TN)

ATIN:STEVE MORROW

BCM:RICK SACKS

PTI:COLLEEN CUSHI G`

⁽¹⁾ Sample Preparation on 01/23/95 by WD using 3010

⁽²⁾ Sample Preparation on 01/20/95 by WD using 3020

⁽³⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽⁴⁾ Sample Preparation on 01/13/95 by GFB using 7195



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-0062-1 Report Date: 02/02/95

PO No.

: SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

Page 2 of 9

SAMPLE DESCRIPTION		MATRIX SAMPLED BY					SAMPLED DATE R		
S000014		Aqueous	3	CLIEN	r	01/13/9	95	01/13/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Silicon, Dissolved Sodium, Dissolved	59 10000	mg/L mg/L	20 200		200.7/6010 200.7/6010				

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejngbp(dw)/kaw LA23IA1 CC: OLIN(TN)

> ATIN:STEVE MORROW BOM:RICK SACKS PII:COLLEEN CUSHI G`

⁽¹⁾ Sample Preparation on 01/27/95 by WD using 3010

⁽²⁾ Sample Preparation on 01/23/95 by WD using 3010



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-0062-1 Report Date: 02/02/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

Page 3 of 9

SAMPLE DESCRIPTION	MATRIX			SAMPLED	SAMPLED D	RECEIVED		
S000014	Ac	Aqueous			CLIENT			01/13/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	NR	mg/L	1.0	20	APHA 406C	01/18/95	CM	1
Bromide	<1000.	mg/L	1000	1	300.0	01/15/95	NH	2
Carbonate, as CO3	NR	mg/L	1.0	20	APHA 406C	01/18/95	CM	3
Nitrate as N, Dissolved	24.	mg/L	20	0.050	353.2	01/17/95	BC	
Nitrite as N, Dissolved	0.081	mg/L	1.0	0.050	353.2	01/13/95	BC	
Organic Carbon, Dissolved (DOC)	1300	mg/L	4.0	1.0	415.1	01/16/95	BC	
Phosphorus, Dissolved as P	7.2	mg/L	10	0.10	365.4	01/18/95	BC	4
Solids - Filterable Residue (TDS)	55000	mg/L	50	10	160.1	01/17/95	BC	5

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejnbac/gbp(dw)

CC: OLIN(TN)

ATTN:STEVE MORROW BCM: RICK SACKS PTI: COLLEEN CUSHI G'

⁽¹⁾ Initial sample pH was <4.5. Bicarbonate could not be analyzed.

⁽²⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ Initial sample pH was <4.5. Carbonate could not be analyzed.

⁽⁴⁾ Sample Preparation on 01/17/95 by BAC

⁽⁵⁾ Sample Preparation on 01/16/95 by JF



Lab Number: WL-0062-2 Report Date: 02/02/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 4 of 9

SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED DATE RECEIVED		
\$000015	Aqueous CLIENT		01/13/9	5	01/13/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	01/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	01/24/95	KW	2
Barium, Dissolved	0.037	mg/L	1.0	0.005	200.7/6010	01/25/95	KW	1
Calcium, Dissolved	18	mg/L	1.0	0.050	200.7/6010	01/25/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/27/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	01/16/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	01/31/95	Œ	
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	01/27/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	01/23/95	KW	2
Magnesium, Dissolved	3.0	mg/L	1.0	0.050	200.7/6010	01/25/95	KW	1
Manganese, Dissolved	1.1	mg/L	1.0	0.005	200.7/6010	01/25/95	KW	1
Potassium, Dissolved	3.2	mg/L	1.0	0.50	200.7/6010	01/27/95	KW	1
Silicon, Dissolved	4.3	mg/L	1.0	0.10	200.7/6010	01/30/95	KW	4

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejnejn/kaw LA23IA1

CC: OLIN(TN)

ATTN:STEVE MORROW BCM:RICK SACKS PTI:COLLEEN CUSHI G`

⁽¹⁾ Sample Preparation on 01/23/95 by WD using 3010

⁽²⁾ Sample Preparation on 01/20/95 by WD using 3020

⁽³⁾ Sample Preparation on 01/13/95 by GFB using 7195

⁽⁴⁾ Sample Preparation on 01/27/95 by WD using 3010



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-0062-2 Report Date: 02/02/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 5 of 9

SAMPLE DESCRIPTION		MATRIX SAMPLED BY		SAMPLED I	RECEIVED			
S000015		Aqueous CLIENT		01/13/95		01/13/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	74	mg/L	1.0	0.10	200.7/6010	01/25/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 01/23/95 by WD using 3010

02/02/95

LJO/ejnejn/kaw LA23IA1

CC: OLIN (TN)

ATIN:STEVE MORROW BOM:RICK SACKS PTI:COLLERN CUSHI G`



Lab Number: WL-0062-2 Report Date: 02/02/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION MATRIX SAMPLED BY				BY	SAMPLED DATE RECEIVED			
S000015	Ac	Aqueous			CLIENT		5	01/13/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	<20	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Bromide	<2.0	mg/L	1.0	2.0	320.1	01/23/95	NN	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Nitrate as N, Dissolved	0.92	mg/L	1.0	0.050	353.2	01/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	01/13/95	BC	
Organic Carbon, Dissolved (DOC)	1.3	mg/L	1.0	1.0	415.1	01/16/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	01/18/95	BC	1
Solids - Filterable Residue (TDS)	330.	mg/L	1.0	10	160.1	01/16/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejngbp(dw)

CC: OLIN (TN)

ATTN: STEVE MORROW BCM:RICK SACKS PTI: COLLEEN CUSHI G'

⁽¹⁾ Sample Preparation on 01/17/95 by BAC

⁽²⁾ Sample Preparation on 01/13/95 by JF



Lab Number: WL-0062-3 Report Date: 02/02/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 7 of 9

SAMPLE DESCRIPTION	MATRIX SAMPLED BY S			SAMPLED D	ATE	RECEIVED		
S000016		Aqueous		CLIEN	CLIENT		5	01/13/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	2500	mg/L	200	0.10	200.7/6010	01/26/95	KW	1
Arsenic, Dissolved	<0.50	mg/L	100	0.005	206.2/7060	01/25/95	KW	2,3
Barium, Dissolved	0.018	mg/L	1.0	0.005	200.7/6010	01/25/95	KW	1
Calcium, Dissolved	620.	mg/L	50	0.050	200.7/6010	01/25/95	KW	1
Chromium, Dissolved	1400	mg/L	400	0.015	200.7/6010	01/26/95	KW	1
Chromium, Hexavalent	55	mg/L	25	0.015	6010	01/17/95	KW	4
Chromium, Trivalent	1300	mg/L	1.0	0.015	Calculation	01/31/95	GB	
Iron, Dissolved	3100	mg/L	200	0.025	200.7/6010	01/26/95	KW	1
Lead, Dissolved	<1.0	mg/L	200	0.005	239.2/7421	01/26/95	KW	2,3
Magnesium, Dissolved	1800.	mg/L	50	0.050	200.7/6010	01/25/95	KW	1
Manganese, Dissolved	130.	mg/L	50	0.005	200.7/6010	01/25/95	KW	1
Potassium, Dissolved	18	mg/L	1.0	0.50	200.7/6010	01/27/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejngbp (dw) /kaw/kew LA23IA1

CC: OLIN (TN)

ATTN:STEVE MORROW BOM:RICK SACKS PTI:COLLEEN CUSHI G`

⁽¹⁾ Sample Preparation on 01/23/95 by WD using 3010

⁽²⁾ Sample Preparation on 01/20/95 by WD using 3020

⁽³⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽⁴⁾ Sample Preparation on 01/13/95 by GFB using 7195



Lab Number: WL-0062-3

Report Date: 02/02/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 8 of 9

SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	ATE	RECEIVED
S000016		Aqueous	B	CITIEN	r	01/13/9	95	01/13/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved Sodium, Dissolved	75 16000	mg/L mg/L	20 200		200.7/6010 200.7/6010	01/30/95 01/26/95	KW	1 2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/02/95

LJO/ejngbp(dw)/kaw/kew LA23IA1

CC: OLIN (TN)

ATTN:STEVE MORROW BCM:RICK SACKS PITI: COLLEEN CUSHI G'

⁽¹⁾ Sample Preparation on 01/27/95 by WD using 3010

⁽²⁾ Sample Preparation on 01/23/95 by WD using 3010



Lab Number: WL-0062-3 Report Date: 02/02/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 9 of 9

SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED				
S000016	Ac	Aqueous				01/13/95		01/13/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate as HCO3	NR	mg/L	1.0	20	APHA 406C	01/18/95	OM.	1	
Bromide	<1000.	mg/L	1000	1	300.0	01/15/95	NH	2	
Carbonate, as CO3	NR	mg/L	1.0	20	APHA 406C	01/18/95	CM	3	
Nitrate as N, Dissolved	19.	mg/L	10	0.050	353.2	01/17/95	BC		
Nitrite as N, Dissolved	0.11	mg/L	2.0	0.050	353.2	01/13/95	BC		
Organic Carbon, Dissolved (DOC)	2700	mg/L	8.0	1.0	415.1	01/16/95	BC		
Phosphorus, Dissolved as P	31.	mg/L	10	0.10	365.4	01/18/95	BC	4	
Solids - Filterable Residue (TDS)	98000	mg/L	100	10	160.1	01/17/95	BC	5	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(5) Sample Preparation on 01/16/95 by JF

02/02/95

LJO/ejnbac/gbp (dw)

CC: OLIN (TN)

ATIN:STEVE MORROW BOM:RICK SACKS PTI:COLLEEN CUSHI G' Respectfully submitted,

PACE, INC.

Laura J. O'Meara

Supervisor, Client Services

⁽¹⁾ Initial sample pH was <4.5. Bicarbonate could not be analyzed.

⁽²⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ Initial sample pH was <4.5. Carbonate could not be analyzed.

⁽⁴⁾ Sample Preparation on 01/17/95 by BAC

Field Identification: \$000010

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Ammonia-N, dissolved (mg/L as N)	800	5	42785-001	01/16/95	533	350.2/1
Chloride, dissolved (mg/L)	1600	50	42785-006	01/14/95	626A	300.0/1
Sulfate, dissolved (mg/L)	6100	100	42785-006	01/14/95	626A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BOL	0.02	42785-006	01/13/95	183	365.2/1
Sulfide, dissolved (mg/L)	1	1	42785-011	01/16/95	281	376.1/1

Field Identification: \$000009

Matrix: WATER

		Reporting	4 . 1 10 .	Date	QC	no al calmon
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Ammonia-K, dissolved (mg/L as N)	2.3	0.05	42785-002	01/16/95	533	350.2/1
Chloride, dissolved (mg/L)	73	3	42785-007	01/15/95	626A	300.0/1
Sulfate, dissolved (mg/L)	65	1	42785-007	01/13/95	626A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BOL	0.02	42785-007	01/13/95	183	365.2/1
Sulfide, dissolved (mg/L)	BDL	1	42785-012	01/16/95	281	376.1/1

Field Identification: \$000008

Matrix: WATER

		Reporting		Date	QC		
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.	
Ammonia-N, dissolved (mg/L as N)	1.5	0.05	42785-003	01/16/95	533	350.2/1	
Chloride, dissolved (mg/L)	52	1	42785-008	01/15/95	626A	300.0/1	
Sulfate, dissolved (mg/L)	59	1	42785-008	01/13/95	626A	300.0/1	
Ortho Phosphate, dissolved (mg/L as P)	BOL	0.02	42785-008	01/13/95	183	365.2/1	
Sulfide, dissolved (mg/L)	BOL	1	42785-013	01/16/95	281	376.1/1	

Field Identification: \$00012

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Ammonia-N, dissolved (mg/L as N)	0.45	0.05	42785-004	01/16/95	533	350.2/1
Chloride, dissolved (mg/L)	160	3	42785-009	01/16/95	627A	300.0/1
Sulfate, dissolved (mg/L)	36	2	42785-009	01/15/95	626A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	42785-009	01/13/95	183	365.2/1
Sulfide, dissolved (mg/L)	BOL	1	42785-014	01/16/95	281	376.1/1



Field Identification: \$000013 Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	8atch	Method/Ref.
Ammonia-N, dissolved (mg/L as N)	450	5	42785-005	01/16/95	533	350.2/1
Chloride, dissolved (mg/L)	1000	50	42785-010	01/15/95	626A	300.0/1
Sulfate, dissolved (mg/L)	3500	100	42785-010	01/15/95	626A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	42785-010	01/13/95	183	365.2/1
Sulfide, dissolved (mg/L)	BOL	1	42785-015	01/16/95	281	376.1/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984





Lab Number : WL-0077-1

Report Date: 02/03/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 1 of 5

SAMPLE DESCRIPTION		MATRIX Aqueous			SAMPLED BY CLIENT		SAMPLED DATE RECEIVED		
GW-68-BR	Ą						95	01/18/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Total	0.14	mg/L	1.0	0.015	200.7/6010	02/01/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 01/31/95 by WD using 3010

02/03/95

LJO/ejnjbb(dw)/kaw LA31IA1

CC: OLIN (TN)

ATIN: STEVE MORROW BCM: RICK SACKS PTI: COLLEEN CUSHING



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-0077-2 Report Date: 02/03/95

PO No.

: SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	MATRIX			SAMPLED BY		SAMPLED DATE RECEIVED		
GW-64-D	Α	Aqueous (CLIENL		01/16/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	02/01/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 01/31/95 by WD using 3010

02/03/95

LJO/ejnjbb(dw)/kaw LA31IA1 CC: OLIN(TN)

> ATTN:STEVE MORROW BCM:RICK SACKS PTI:COLLEEN CUSHING



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-0077-3 Report Date: 02/03/95

PO No. : 5

: SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	ATRIX		SAMPLE	D BX	SAMPLED D	ATE	RECEIVED
GW-27-D	Ţ.	queous		CLIENT		01/17/9	5	01/18/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Total	2.2	mg/L	1.0	0.015	200.7/6010	02/01/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 01/31/95 by WD using 3010

02/03/95

LJO/ejnjbb(dw)/kaw LA31IA1

CC: OLIN(TN)

ATTN:STEVE MORROW BOM:RICK SACKS PTI:COLLEEN CUSHING



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-0077-4 Report Date: 02/03/95

PO No.

: SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

Page 4 of 5

SAMPLE DESCRIPTION	P	ATRIX		SAMPLE	D BY	SAMPLED D	ATE	RECEIVED
GW-61-BR	7	Aqueous		CLIENT		01/17/9	5	01/18/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	02/01/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 01/31/95 by WD using 3010

02/03/95

LJO/ejnjbb(dw)/kaw LA31IA1 CC: OLIN(TN)

> ATTN:STEVE MORROW BCM:RICK SACKS PTI:COLLEEN CUSHING



Lab Number: WL-0077-5

Report Date: 02/03/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 5 of 5

SAMPLE DESCRIPTION	М	TATRIX		SAMPLE	D BY	SAMPLED D	ATE	RECEIVED
GW-67-D	A	vqueous		CLIENT		01/17/9	5	01/18/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	02/01/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 01/31/95 by WD using 3010

02/03/95

LJO/ejnjbb(dw)/kaw LA31IA1

CC: OLIN (TN)

ATTN:STEVE MORROW BCM:RICK SACKS PTI:COLLEEN CUSHING Respectfully submitted,

PACE, INC.

Laura J. O'Meara

Supervisor, Client Services

Field Identification: \$000014

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	9300	500	42801-001	01/15/95	626A	325.1/1
Sulfate, dissolved (mg/L)	39000	1000	42801-001	01/15/95	626A	375.4/1
Bromide, dissolved (mg/L)	BDL	1000	42801-001	01/15/95	626	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.2	0.2	42801-001	01/13/95	183	365.2/1
Sulfide, dissolved (mg/L)	BOL	1	42801-004	01/16/95	281	376.1/1
Ammonia-N, dissolved (mg/L as N)	3000	50	42801-007	01/17/95	534	350.2/1

Field Identification: \$000015

Matrix: WATER

	Reporting			Date	QC .		
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.	
Chloride, dissolved (mg/L)	130	5	42801-002	01/16/95	627A	325.1/1	
Sulfate, dissolved (mg/L)	29	1.0	42801-002	01/15/95	626A	375.4/1	
Ortho Phosphate, dissolved (mg/L as P)	BOL	0.2	42801-002	01/13/95	183	365.2/1	
Sulfide, dissolved (mg/L)	BDL	1	42801-005	01/16/95	281	376.1/1	
Ammonia-N, dissolved (mg/L as N)	2.5	0.05	42801-008	01/17/95	534	350.2/1	

Field Identification: S000016

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	15000	500	42801-003	01/15/95	626A	325.1/1
Sulfate, dissolved (mg/L)	72000	1000	42801-003	01/15/95	626A	375.4/1
Bromide, dissolved (mg/L)	BOL	1000	42801-003	01/15/95	626	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	1.2	0.2	42801-003	01/13/95	183	365.2/1
Sulfide, dissolved (mg/L)	2	1	42801-006	01/16/95	281	376.1/1
Ammonia-N, dissolved (mg/L as N)	5200	50	42801-009	01/17/95	534	350.2/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984



Field Identification: GW-68-BR

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Sulfate, dissolved (mg/L)	4200	100	42830-001	01/18/95	629A	375.4/1
Ammonia-N, dissolved (mg/L as N)	30	0.5	42830-006	01/19/95	535	350.2/1

Field Identification: GW-64-D

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Sulfate, dissolved (mg/L)	760	10	42630-002	01/18/95	629A	375.4/1
Ammonia-N, dissolved (mg/L as N)	6.4	0.5	42830-007	01/19/95	535	350.2/1

Field Identification: GW-27-D

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Sulfate, dissolved (mg/L) Ammonia-N, dissolved (mg/L as N)	23000 3700	500 50	42830-003 42830-008	01/18/95 01/19/95		375.4/1 350.2/1

Field Identification: GW-61-BR

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Sulfate, dissolved (mg/L)	31	1.0	42830-004	01/18/95	629A	375.4/1
Ammonia-N, dissolved (mg/L as N)	0.12	0.05	42830-009	01/19/95	535	350.2/1

Field Identification: GW-67-D

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfate, dissolved (mg/L) Ammonia-N, dissolved (mg/L as N)	45 0.06	10 0.05	42830-005 42830-010	01/18/95 01/19/95		375.4/1 350.2/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984



Field Identification: S0000002

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed		Method/Ref.
Viscosity (cpoise)	2.8		42836-001	01/19/95		D3245-85
Field Identification: S0000009			Matrix: WAT	ER		
Perameter	Result	Reporting Limit	Lab No.	Date Analyzed		Method/Ref.
Viscosity (cpoise)	3.5		42836-002	01/19/95		03245-85
Field Identification: S0000008			Matrix: WAT	ER		
Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity (cpoise)	3.0		42836-003	01/19/95	108	D3245-85
Field Identification: S0000015			Matrix: WAT	ER		
Parameter	Result	Reporting Limit		Date Analyzed		Method/Ref.
Viscosity (cpoise)	3.0		42836-004	01/19/95		D3245-85
Field Identification: \$0000014	•		Matrix: WAT	ER		
Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity (cpoise)	3,8		42836-005	01/19/95	108	03245-85
Field Identification: \$0000011			Matrix: WAT	reR		
Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity (cpoise)	3.0		42836-006	01/19/95		D3245-85





Lab Number : WL-0185-1 Report Date: 02/24/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BA ,	SAMPLED D	ATE	RECEIVED
GW-50S		Aqueous		T. EB	NER	02/01/95		02/01/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	02/13/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	02/14/95	KW	2
Barium, Dissolved	0.017	mg/L	1.0	0.005	200.7/6010	02/13/95	KW	1,3
Calcium, Dissolved	200.	mg/L	10	0.050	200.7/6010	02/13/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/13/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	02/02/95	KW	4
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	02/02/95	KW	4
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	02/15/95	KW	5
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	02/23/95	DN	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	02/23/95	DN	
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	02/13/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	02/10/95	KW	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejngbp(dw) LB10ICW1

CC: OLIN(TN)

ATTN: STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/10/95 by WD using 3010

⁽²⁾ Sample Preparation on 02/10/95 by WD using 3020

⁽³⁾ Duplicate analyses were performed on this sample for this parameter. The precision of the duplicate results is outside the laboratory's acceptance range. Sample homogeneity may be a factor. The individual results were 0.017 and 0.028.

⁽⁴⁾ Sample Preparation on 02/01/95 by GFB using 7195

⁽⁵⁾ Sample Preparation on 02/14/95 by KAW using 3010



Lab Number : WL-0185-1 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 2 of 12

SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	SAMPLED DATE RECEIVED			
GW-50S		Aqueous	·	T. EB	NER	02/01/9	5	02/01/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Magnesium, Dissolved	37.	mg/L	1.0	0.050	200.7/6010	02/13/95	KW	1		
Manganese, Dissolved	5.6	mg/L	1.0	0.005	200.7/6010	02/13/95	KW	1		
Potassium, Dissolved	10.	mg/L	1.0	0.50	200.7/6010	02/13/95	KW	1		
Silicon, Dissolved	B6.8	mg/L	2.0	0.10	200.7/6010	02/20/95	KW	2,3		
Sodium, Dissolved	310.	mg/L	10	0.10	200.7/6010	02/13/95	KW	1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejngbp(dw) LB10ICW1

CC: OLIN (TN)

ATTN: STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/10/95 by WD using 3010

⁽²⁾ Sample Preparation on 02/14/95 by KAW using 3010

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.11 mg/L.



Lab Number: WL-0185-1 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 3 of 12

SAMPLE DESCRIPTION	M	TRIX		SAMPLED	SAMPLED BY SAMPLED DATE RECEIVED				
GW-50S	Ac	<i>l</i> ueous		T. EBNER		02/01/95		02/01/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	47.	mg/L	1.0	20	APHA 406C	02/09/95	CM.		
Bromide, Dissolved	<2.0	mg/L	1.0	2.0	320.1	02/18/95	NN	1	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	CM		
Chemical Oxygen Demand, Dissolved	20.	mg/L	1.0	15	410.4	02/03/95	CM		
Nitrate as N, Dissolved	4.3	mg/L	10	0.050	353.2	02/17/95	BC		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/03/95	BC		
Organic Carbon, Dissolved (DOC)	5.8	mg/L	1.0	1.0	415.1	02/13/95	BC		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365. 4	02/15/95	BC	2	
Solids-Filt Residue, Dissolved	1800.	mg/L	1.0	10	160.1	02/06/95	JF	3	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejngbp(dw)/pph

CC: OLIN (TN)

ATTN:STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/17/95 by NEN

⁽²⁾ Sample Preparation on 02/14/95 by NEN

⁽³⁾ Sample Preparation on 02/03/95 by JF



Lab Number : WL-0185-2 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY			SAMPLED D	RECEIVED			
G₩-79S		Aqueous		T. EB	T. EBNER		5	02/01/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	0.10	mg/L	1.0	0.10	200.7/6010	02/13/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	02/14/95	KW	2	
Barium, Dissolved	0.016	mg/L	1.0	0.005	200.7/6010	02/13/95	KW	1	
Calcium, Dissolved	320.	mg/L	10	0.050	200.7/6010	02/13/95	KW	1	
Chromium, Dissolved	0.017	mg/L	1.0	0.015	200.7/6010	02/13/95	KW	1	
Chromium, Hexavalent	0.42	mg/L	1.0	0.015	6010	02/02/95	KW	3	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	02/02/95	KW	3	
Chromium, Total	0.45	mg/L	1.0	0.015	200.7/6010	02/15/95	KW	4	
Chromium, Trivalent	0.030	mg/L	1.0	0.015	Calculation	02/23/95	DN		
Chromium, Trivalent Dissolved	0.017	mg/L	1.0	0.015	Calculation	02/23/95	DN		
Iron, Dissolved	39.	mg/L	10	0.025	200.7/6010	02/13/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	02/10/95	KW	2	
Magnesium, Dissolved	19.	mg/L	1.0	0.050	200.7/6010	02/13/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LNO/ejngbp(dw) LB101CW1 CC: OLIN(TN)

> ATTN: STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/10/95 by WD using 3010

⁽²⁾ Sample Preparation on 02/10/95 by WD using 3020

⁽³⁾ Sample Preparation on 02/01/95 by GFB using 7195

⁽⁴⁾ Sample Preparation on 02/14/95 by KAW using 3010



Lab Number: WL-0185-2 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX			ED BY	SAMPLED D	RECEIVED	
GW-79S		Aqueous	· · · · · · ·	T. EB	NER	02/01/9	5	02/01/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	2.9	mg/L	1.0	0.005	200.7/6010	02/13/95	KW	1
Potassium, Dissolved	8.7	mg/L	1.0	0.50	200.7/6010	02/13/95	KW	1
Silicon, Dissolved	B4.0	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	2,3
Sodium, Dissolved	350.	mg/L	10	0.10	200.7/6010	02/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejngbp(dw) LB101CW1 CC: OLIN(TN)

> ATTN:STEVE MORROW RICK SACKS-BCM

⁽¹⁾ Sample Preparation on 02/10/95 by WD using 3010

⁽²⁾ Sample Preparation on 02/14/95 by KAW using 3010

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.11 mg/L.



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0185-2 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	IPTION MATRIX SAMPLED BY			BA	SAMPLED DATE RECEIVED				
GM-79S	Ac	rueous Ineous		T. EBNER		02/01/95		02/01/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	150.	mg/L	1.0	20	APHA 406C	02/09/95	CM		
Bromide, Dissolved	<2.0	mg/L	1.0	2.0	320.1	02/18/95	NN	1	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	CM		
Chemical Oxygen Demand, Dissolved	65.	mg/L	1.0	15	410.4	02/03/95	CM		
Nitrate as N, Dissolved	3.1	mg/L	10	0.050	353.2	02/17/95	BC		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/03/95	BC		
Organic Carbon, Dissolved (DOC)	22	mg/L	1.0	1.0	415.1	02/13/95	BC		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	02/15/95	BC	2	
Solids-Filt Residue, Dissolved	2700.	mg/L	2.0	10	160.1	02/06/95	JF	3	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejngbp(dw)/pph

CC: OLIN(TN)

ATTN:STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/17/95 by NEN

⁽²⁾ Sample Preparation on 02/14/95 by NEN

⁽³⁾ Sample Preparation on 02/03/95 by JF



Lab Number : WL-0185-3 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY			ED BY	SAMPLED DATE RECEIVED			
GM-78S		Aqueous	3	T. EB	NER	02/01/9	02/01/95 02/01/95 NALYZED BY NOTES 2/13/95 KW 1 2/13/95 KW 2 2/13/95 KW 1 2/13/95 KW 1 2/13/95 KW 3 2/02/95 KW 3 2/02/95 KW 3 2/23/95 DN 2/23/95 DN 2/213/95 KW 1	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BA	NOTES
Aluminum, Dissolved	0.40	mg/L	1.0	0.10	200.7/6010	02/13/95	КW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	02/14/95	KW	2
Barium, Dissolved	0.010	mg/L	1.0	0.005	200.7/6010	02/13/95	KW	1
Calcium, Dissolved	110.	mg/L	10	0.050	200.7/6010	02/13/95	KW	1
Chromium, Dissolved	0.13	mg/L	1.0	0.015	200.7/6010	02/13/95	KW	1
Chromium, Hexavalent	1.8	mg/L	1.0	0.015	6010	02/02/95	KW	3
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	02/02/95	KW	3
Chromium, Total	1.9	mg/L	1.0	0.015	200.7/6010	02/15/95	KW	4
Chromium, Trivalent	0.13	mg/L	1.0	0.015	Calculation	02/23/95	DN	
Chromium, Trivalent Dissolved	0.10	mg/L	1.0	0.015	Calculation	02/23/95	DN	
Iron, Dissolved	4.0	mg/L	1.0	0.025	200.7/6010	02/13/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	02/10/95	KW	2
Magnesium, Dissolved	4.6	mg/L	1.0	0.050	200.7/6010	02/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LWO/ejngbp(dw) LB10ICW1

CC: OLIN (TN)

ATTN: STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/10/95 by WD using 3010

⁽²⁾ Sample Preparation on 02/10/95 by WD using 3020

⁽³⁾ Sample Preparation on 02/01/95 by GFB using 7195

⁽⁴⁾ Sample Preparation on 02/14/95 by KAW using 3010



Lab Number: WL-0185-3 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPL	ed by	SAMPLED D	RECEIVED	
GW-78S		Aqueous		r. eb	VER	02/01/9	5	02/01/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	1.1	mg/L	1.0	0.005	200.7/6010	02/13/95	KW	1
Potassium, Dissolved	1.6	mg/L	1.0	0.50	200.7/6010	02/13/95	KW	1
Silicon, Dissolved	B6.9	mg/L	2.0	0.10	200.7/6010	02/20/95	KW	2,3
Sodium, Dissolved	43.	mg/L	1.0	0.10	200.7/6010	02/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejngbp(dw) LB10ICW1

CC: OLIN(TN)

ATIN: STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/10/95 by WD using 3010

⁽²⁾ Sample Preparation on 02/14/95 by KAW using 3010

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.11 mg/L.



Lab Number: WL-0185-3 Report Date: 02/24/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	PATRIX SAMPLED BY			SAMPLED DATE RECEIVED			
GW-78S	Aqueous T. EBNER			R	02/01/9	5	02/01/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	СM	
Bromide, Dissolved	<2.0	mg/L	1.0	2.0	320.1	02/18/95	NN	1
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	02/03/95	CM	
Nitrate as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/03/95	BC	
Organic Carbon, Dissolved (DOC)	5.3	mg/L	1.0	1.0	415.1	02/13/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	02/15/95	BC	2
Solids-Filt Residue, Dissolved	610.	mg/L	1.0	10	160.1	02/06/95	JF	3

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejngbp(dw)/pph

CC: OLIN (TN)

ATTN:STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/17/95 by NEN

⁽²⁾ Sample Preparation on 02/14/95 by NEN

⁽³⁾ Sample Preparation on 02/03/95 by JF



Lab Number : WL-0185-4 Report Date: 02/24/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	SAMPLED D	ATE	1 1 2 1 1 1 1 1 1 3		
GW-42S		Aqueous			NER	02/01/95		02/01/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Dissolved	0.44	mg/L	1.0	0.10	200.7/6010	02/13/95	KW	1		
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	02/14/95	KW	2		
Barium, Dissolved	0.029	mg/L	1.0	0.005	200.7/6010	02/13/95	KW	1		
Calcium, Dissolved	7.9	mg/L	1.0	0.050	200.7/6010	02/13/95	KW	1		
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/13/95	KW	1		
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	02/02/95	KW	3		
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	02/02/95	KW	3		
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	02/15/95	KW	4		
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	02/23/95	DN			
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	02/23/95	DN			
Iron, Dissolved	3.0	mg/L	1.0	0.025	200.7/6010	02/13/95	KW	1		
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	02/13/95	KW	2		
Magnesium, Dissolved	1.7	mg/L	1.0	0.050	200.7/6010	02/13/95	KW	1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejngbp(dw) LB10ICW1

CC: OLIN (TN)

ATTN:STEVE MORROW RICK SACKS-BCM

⁽¹⁾ Sample Preparation on 02/10/95 by WD using 3010

⁽²⁾ Sample Preparation on 02/10/95 by WD using 3020

⁽³⁾ Sample Preparation on 02/01/95 by GFB using 7195

⁽⁴⁾ Sample Preparation on 02/14/95 by KAW using 3010



Lab Number : WL-0185-4 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION MATRIX			SAMPL	ED BY	SAMPLED DATE RECEIVED			
GW-42S		Aqueous	·	T. EB	NER	02/01/9	95	02/01/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BĂ	NOTES
Manganese, Dissolved	0.43	mg/L	1.0	0.005	200.7/6010	02/13/95	KW	1
Potassium, Dissolved	1.4	mg/L	1.0	0.50	200.7/6010	02/13/95	KW	1
Silicon, Dissolved	B5.2	mg/L	2.0	0.10	200.7/6010	02/20/95	KW	2,3
Sodium, Dissolved	22.	mg/L	1.0	0.10	200.7/6010	02/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejngbp(dw) LB10ICW1

CC: OLIN(TN)

ATTN: STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/10/95 by WD using 3010

⁽²⁾ Sample Preparation on 02/14/95 by KAW using 3010

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.11 mg/L.



Lab Number : WL-0185-4 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 12 of 12

SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED D	RECEIVED		
GW-42S	Aqueous			T. EBNE	R	02/01/9	02/01/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	QM	
Bramide, Dissolved	<2.0	mg/L	1.0	2.0	320.1	02/18/95	NN	1
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Chemical Oxygen Demand, Dissolved	18.	mg/L	1.0	15	410.4	02/03/95	QM	
Nitrate as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/03/95	BC	
Organic Carbon, Dissolved (DOC)	6.0	mg/L	1.0	1.0	415.1	02/13/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	02/15/95	BC	2
Solids-Filt Residue, Dissolved	140.	mg/L	1.0	10	160.1	02/06/95	JF	3

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) Sample Preparation on 02/17/95 by NEN
- (2) Sample Preparation on 02/14/95 by NEN
- (3) Sample Preparation on 02/03/95 by JF

02/24/95

LJO/ejngbp(dw)/pph

CC: OLIN(TN)

ATIN: STEVE MORROW RICK SACKS-BOM Respectfully submitted, PACE, INC.

Laura J. O'Meara

Supervisor, Client Services



Lab Number : WL-0195-1 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY					SAMPLED DATE RECEIVED		
GW-77S		Aqueous		T. EB	T. EBNER		5	02/02/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	0.16	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	02/15/95	KW	2	
Barium, Dissolved	0.018	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1	
Calcium, Dissolved	27.	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1	
Chromium, Dissolved	0.029	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	02/03/95	KW	3	
Chromium, Trivalent Dissolved	0.029	mg/L	1.0	0.015	Calculation	02/23/95	DN		
Iron, Dissolved	0.51	mg/L	1.0	0.025	200.7/6010	02/20/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	02/16/95	KW	2	
Magnesium, Dissolved	3.4	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1	
Manganese, Dissolved	0.30	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1	
Potassium, Dissolved	1.4	mg/L	1.0	0.50	200.7/6010	02/20/95	KW	1	
Silicon, Dissolved	4.2	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1	
Sodium, Dissolved	32.	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejngbp(dw) LB15ICW1 CC: OLIN(TN)

> ATTN:STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/15/95 by WD using 3010

⁽²⁾ Sample Preparation on 02/15/95 by WD using 3020

⁽³⁾ Sample Preparation on 02/02/95 by GFB using 7195



Lab Number : WL-0195-1 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	TRIX		SAMPLED BY SAMPLED DATE RECEIVE					
GN-77S	Aq	rueous		T. EBNE	R	02/02/9	5	02/02/95 BY NOTES OM NN 1 OM LIT BC BC	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	43.	mg/L	1.0	20	APHA 406C	02/09/95	СМ		
Bromide, Dissolved	<2.0	mg/L	1.0	2.0	320.1	02/18/95	NN	1	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	CM		
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	02/07/95	LT		
Nitrate as N, Dissolved	0.70	mg/L	1.0	0.050	353.2	02/17/95	BC		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/03/95	BC		
Organic Carbon, Dissolved (DOC)	4.6	mg/L	1.0	1.0	415.1	02/13/95	BC		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	02/15/95	BC	2	
Solids-Filt Residue, Dissolved	220.	mg/L	1.0	10	160.1	02/06/95	JF	3	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejngbp(dw)/pph

CC: OLIN (TN)

ATIN: STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/17/95 by NEN

⁽²⁾ Sample Preparation on 02/14/95 by NEN

⁽³⁾ Sample Preparation on 02/03/95 by JF



Lab Number: WL-0195-2 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
GW-77SD	А	Aqueous		T. EBN	T. EBNER		95	02/02/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	0.20	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	02/15/95	KW	2	
Barium, Dissolved	0.018	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1	
Calcium, Dissolved	26.	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1	
Chromium, Dissolved	0.025	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	1	
Iron, Dissolved	0.59	mg/L	1.0	0.025	200.7/6010	02/20/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	02/16/95	KW	2	
Magnesium, Dissolved	3.3	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1	
Manganese, Dissolved	0.30	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1	
Potassium, Dissolved	1.6	mg/L	1.0	0.50	200.7/6010	02/20/95	KW	1	
Silicon, Dissolved	4.2	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1	
Sodium, Dissolved	31.	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejngbp(dw) LB15ICW1

CC: OLIN (TN)

ATTN:STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/15/95 by WD using 3010

⁽²⁾ Sample Preparation on 02/15/95 by WD using 3020



Lab Number: WL-0195-2 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPLED BY SAMPLED DATE RECEIVED					
GW-77SD	Ac	meons		T. EBNE	R	02/02/9)5	02/02/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	44.	mg/L	1.0	20	APHA 406C	02/09/95	CM		
Bromide, Dissolved	<2.0	mg/L	1.0	2.0	320.1	02/18/95	NN	1	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	CM		
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	02/07/95	LT		
Nitrate as N, Dissolved	0.60	mg/L	1.0	0.050	353.2	02/17/95	BC		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/03/95	BC		
Organic Carbon, Dissolved (DOC)	5.0	mg/L	1.0	1.0	415.1	02/13/95	BC		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	02/15/95	BC	2	
Solids-Filt Residue, Dissolved	210.	mg/L	1.0	10	160.1	02/06/95	JF	3	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejngbp(dw)/pph

CC: OLIN (TN)

ATTN:STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/17/95 by NEN

⁽²⁾ Sample Preparation on 02/14/95 by NEN

⁽³⁾ Sample Preparation on 02/03/95 by JF



Lab Number : WL-0195-3 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY					ATE	SAMPLED DATE RECEIVED		
GW-76S		Aqueous		T. EB	T. EBNER 02/02/95 02/0			02/02/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1		
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	02/15/95	KW	2		
Barium, Dissolved	0.045	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1		
Calcium, Dissolved	27.	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1		
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	1		
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	02/03/95	KW	3		
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	02/23/95	DN			
Iron, Dissolved	1.3	mg/L	1.0	0.025	200. 7/6010	02/20/95	KW	1		
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	02/16/95	KW	2		
Magnesium, Dissolved	2.2	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1		
Manganese, Dissolved	0.45	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1		
Potassium, Dissolved	0.89	mg/L	1.0	0.50	200.7/6010	02/20/95	KW	1		
Silicon, Dissolved	14.	mg/L	5.0	0.10	200.7/6010	02/20/95	KW	1		
Sodium, Dissolved	50.	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejngbp(dw) LB15ICW1 CC: OLIN(TN)

ATTN: STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/15/95 by WD using 3010

⁽²⁾ Sample Preparation on 02/15/95 by WD using 3020

⁽³⁾ Sample Preparation on 02/02/95 by GFB using 7195



Lab Number : WL-0195-3 Report Date: 02/24/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED BY SAMPLED DATE RECEIV				
GW-76S	Ac	neona		T. EBNE	R	02/02/9	95	02/02/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	65.	ng/L	1.0	20	APHA 406C	02/09/95	CM	
Bromide, Dissolved	<2.0	mg/L	1.0	2.0	320.1	02/18/95	NN	1
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	02/07/95	LT	
Nitrate as N, Dissolved	4.7	mg/L	10	0.050	353.2	02/17/95	BC	
Nitrite as N, Dissolved	0.058	mg/L	1.C	0.050	353.2	02/03/95	BC	
Organic Carbon, Dissolved (DOC)	4.4	mg/L	1.0	1.0	415.1	02/13/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	02/15/95	BC	2
Solids-Filt Residue, Dissolved	310.	mg/L	1.0	10	160.1	02/06/95	JF	3

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

ыо/ejngbp (dw)/pph

CC: OLIN(IN)

ATTN:STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/17/95 by NEN

⁽²⁾ Sample Preparation on 02/14/95 by NEN

⁽³⁾ Sample Preparation on 02/03/95 by JF



Lab Number: WL-0195-4 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED DATE RECEIVED			
GW-775 MS		Aqueous		T. EB	T. EBNER 02/02/95 02/0			02/02/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	2.30	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1	
Arsenic, Dissolved	0.040	mg/L	2.0	0.005	206.2/7060	02/15/95	KW	2	
Barium, Dissolved	2.13	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1	
Calcium, Dissolved	30.4	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1	
Chromium, Dissolved	0.243	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	1	
Chromium, Hexavalent Dissolved	5.09	mg/L	2.0	0.015	6010	02/03/95	KW	3	
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	02/23/95	DN	4	
Iron, Dissolved	1.63	mg/L	1.0	0.025	200.7/6010	02/20/95	KW	1	
Lead, Dissolved	0.022	mg/L	1.0	0.005	239.2/7421	02/16/95	KW	2	
Magnesium, Dissolved	7.77	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1	
Manganese, Dissolved	0.826	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1	
Potassium, Dissolved	22.9	mg/L	1.0	0.50	200.7/6010	02/20/95	KW	1	
Silicon, Dissolved	6.87	mg/L	2.0	0.10	200.7/6010	02/20/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejnejn LB15ICW1 CC: OLIN(TN)

> ATTN:STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/15/95 by WD using 3010

⁽²⁾ Sample Preparation on 02/15/95 by WD using 3020

⁽³⁾ Sample Preparation on 02/02/95 by GFB using 7195

⁽⁴⁾ This is a calculation and is not applicable to a matrix spike.



Lab Number: WL-0195-4

Report Date: 02/24/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
GW-77S MS		Aqueous		T. EBNER		02/02/95		02/02/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sodium, Dissolved	37.8	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 02/15/95 by WD using 3010

02/24/95

LJO/ejnejn LB15ICW1 CC: OLIN(TN)

ATTN:STEVE MORROW RICK SACKS-BOM



Lab Number : WL-0195-4 Report Date: 02/24/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS

51 EAMES STREET

WILMINISTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				BA	SAMPLED DATE RECEIVED			
GW-77S MS	Ac	neous		T. EBNE	R	02/02/9	95	02/02/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	168	mg/L	1.0	20	APHA 406C	02/09/95	СM	 	
Bromide, Dissolved	12.5	mg/L	1.0	2.0	320.1	02/18/95	NN	1	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	02/09/95	CM		
Chemical Oxygen Demand, Dissolved	88.0	mg/L	1.0	15	410.4	02/07/95	LT		
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.050	353.2	02/17/95	BC	2	
Nitrite as N, Dissolved	0.460	mg/L	1.0	0.050	353.2	02/03/95	BC		
Organic Carbon, Dissolved (DOC)	41.7	mg/L	1.0	1.0	415.1	02/13/95	BC		
Phosphorus, Dissolved as P	1.12	mg/L	1.0	0.10	365.4	02/15/95	BC	3	
Solids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	02/06/95	JF	4,5	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejngbp(dw)/pph

CC: OLIN(TN)

ATIN: STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/17/95 by NEN

⁽²⁾ NA=This is a calculation and is not applicable to a matrix spike.

⁽³⁾ Sample Preparation on 02/14/95 by NEN

⁽⁴⁾ Sample Preparation on 02/03/95 by JF

⁽⁵⁾ NA=Matrix spike analysis is not applicable for this parameter.



Lab Number: WL-0195-5 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED DATE RECEIVED		
GW-77S DUP		Aqueous		T. ER	. EBNER 02/02/95 02		02/02/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.150	mg/L	1.0	0.10	200.7/6010	02/20/95	КW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	02/15/95	KW	2
Barium, Dissolved	0.019	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1
Calcium, Dissolved	28.4	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1
Chromium, Dissolved	0.025	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	02/03/95	KW	3
Chromium, Trivalent Dissolved	0.025	mg/L	1.0	0.015	Calculation	02/23/95	DN	
Iron, Dissolved	0.546	mg/L	1.0	0.025	200.7/6010	02/20/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	02/16/95	KW	2
Magnesium, Dissolved	3.49	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1
Manganese, Dissolved	0.296	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1
Potassium, Dissolved	1.89	mg/L	1.0	0.50	200.7/6010	02/20/95	KW	1
Silicon, Dissolved	4.23	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1
Sodium, Dissolved	31.6	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejnejn LB15ICW1 CC: OLIN (TN)

ATTN: STEVE MORROW

RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/15/95 by WD using 3010

⁽²⁾ Sample Preparation on 02/15/95 by WD using 3020

⁽³⁾ Sample Preparation on 02/02/95 by GFB using 7195



Lab Number: WL-0195-5 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	TRIX	SAMPLED BY			SAMPLED DATE RECEIVED				
GM-77S DUP	Ac	ueous		T. EBNE	R	02/02/95 02/02/				
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Bicarbonate, Dissolved as HCO3	44.5	mg/L	1.0	20	APHA 406C	02/09/95	CM			
Bromide, Dissolved	2.35	mg/L	1.0	2.0	320.1	02/18/95	NN	1		
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	02/09/95	CM			
Chemical Oxygen Demand, Dissolved	<15.0	mg/L	1.0	15	410.4	02/07/95	LT			
Nitrate as N, Dissolved	0.625	mg/L	1.0	0.050	353.2	02/17/95	BC			
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/03/95	BC			
Organic Carbon, Dissolved (DOC)	5. 4 6	mg/L	1.0	1.0	415.1	02/13/95	BC			
Phosphorus, Dissolved as P	<0.100	mg/L	1.0	0.10	365.4	02/15/95	BC	2		
Solids-Filt Residue, Dissolved	215	mg/L	1.0	10	160.1	02/06/95	JF	3		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejngbp(dw)/pph

CC: OLIN(TN)

ATIN: STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/17/95 by NEN

⁽²⁾ Sample Preparation on 02/14/95 by NEN

⁽³⁾ Sample Preparation on 02/03/95 by JF



Lab Number: WL-0195-6 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPLI	ED BY	SY SAMPLED DATE RECEIVED				
GW-77S		Aqueous		T EB	VER	02/02/95 02/02/9				
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	02/03/95	KW	1		
Chromium, Total	0.024	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	2		
Chromium, Trivalent	0.024	mg/L	1.0	0.015	Calculation	02/23/95	DN			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejnejn

CC: OLIN (TN)

ATTN:STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/02/95 by GFB using 7195

⁽²⁾ Sample Preparation on 02/15/95 by WD using 3010



Lab Number: WL-0195-7 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	ATRIX		SAMPLE	D BY	SAMPLED DATE RECEIVED			
GW-77SD	A	Aqueous			ER	02/02/95 02/02/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Total	0.033	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 02/15/95 by WD using 3010

02/24/95

LJO/ejngbp(dw) LB15ICW1 CC: OLIN(TN)

ATTN:STEVE MORROW RICK SACKS-BCM



Lab Number: WL-0195-8 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX Aqueous			SAMPLED BY			SAMPLED DATE RECEIVED			
GW-76S					T. EBNER)5	02/02/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES			
Chromium, Hexavalent Chromium, Total Chromium, Trivalent	0.026 0.040 <0.015	mg/L mg/L mg/L	1.0 1.0 1.0		6010 200.7/6010 Calculation	02/03/95 02/20/95 02/23/95	KW	1 2			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejnejn

CC: OLIN (TN)

ATTN:STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/02/95 by GFB using 7195

⁽²⁾ Sample Preparation on 02/15/95 by WD using 3010



Lab Number : WL-0195-9 Report Date: 02/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX			SAMPLED BY			SAMPLED DATE RECEIVED			
GW-77S MS	Aqueous			T. EBNER		02/02/95		02/02/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES			
Chromium, Hexavalent Chromium, Total	4.86	mg/L mg/L	2.0	0.015	6010 200.7/6010	02/03/95 02/20/95		1 2			
Chromium, Trivalent	Not Appl.	•	1.0		Calculation	,		3			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/24/95

LJO/ejnejn

CC: OLIN (TN)

ATTN:STEVE MORROW RICK SACKS-BOM

⁽¹⁾ Sample Preparation on 02/02/95 by GFB using 7195

⁽²⁾ Sample Preparation on 02/15/95 by WD using 3010

⁽³⁾ This is a calculation and is not applicable to a matrix spike.



Lab Number : WL-0195-10 Report Date: 02/24/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX			SAMPLED BY			SAMPLED DATE RECEIVED			
GW-77S DUP	Aqueous			T. EENER		02/02/95		02/02/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES			
Chromium, Hexavalent Chromium, Total Chromium, Trivalent	<0.015 0.033 0.033	mg/L mg/L mg/L	1.0 1.0 1.0		6010 200.7/6010 Calculation	02/03/95 02/20/95 02/23/95	KW	1 2			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(2) Sample Preparation on 02/15/95 by WD using 3010

02/24/95

LJO/ejnejn

CC: OLIN (TN)

ATTN:STEVE MORROW RICK SACKS-BOM

Respectfully submitted,

PACE, INC.

Laura J. O'Meara

Supervisor, Client Services

⁽¹⁾ Sample Preparation on 02/02/95 by FGB using 7195



Lab Number: WL-0202-1

Report Date: 02/28/95 PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 1 of 2

SAMPLE DESCRIPTION		MATRIX SAMPLED BY					SAMPLED DATE RECEIVED			
SED-17,11		Solid		CLIENT		02/02/9	5	02/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Total	31000	mg/kgdrywt	1.0	10	6010	02/15/95	KW	1		
Arsenic, Total	54	mg/kgdrywt	1.0	0.50	7060	02/15/95	KW	1		
Barium, Total	74	mg/kgdrywt	1.0	0.50	6010	02/15/95	KW	1		
Calcium, Total	10000	mg/kgdrywt	1.0	5.0	6010	02/15/95	KW	1		
Chromium, Total	2800	mg/kgdrywt	1.0	1.5	6010	02/15/95	KW	1		
Iron, Total	120000	mg/kgdrywt	5.0	2.5	6010	02/17/95	KW	1		
Lead, Total	66	mg/kgdrywt	1.0	0.50	7421	02/16/95	KW	1		
Magnesium, Total	1900	mg/kgdrywt:	1.0	5.0	6010	02/15/95	KW	1		
Manganese, Total	210	mg/kgdrywt	1.0	0.50	6010	02/15/95	KW	1		
Potassium, Total	<950	mg/kgdrywt	1.0	5 0.	6010	02/20/95	KW	1		
Silicon, Total	3000	mg/kgdrywt	1.0	10	6010	02/20/95	KW	1		
Sodium, Total	3300	mg/kgdrywt	1.0	10	6010	02/15/95	KW	1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 02/13/95 by DG using 3050

02/28/95

LJO/ejnajc/gbp(dw)/kaw LB13ICS1

CC: OLIN (TN)

ATIN: STEVE MORROW BOM-RICK SACKS



Lab Number: WL-0202-1

Report Date: 02/28/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESUL'IJ

Page 2 of 2

SAMPLE DESCRIPTION		MATRIX SAMPLED BY		SAMPLED I	ATE	RECEIVED		
SED-17,11		Solid		GTE	NT	02/02/9	95	02/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BA	NOTES
Lime Equivalency	<0.025	wt %	1.0	0.025	Special Proc	02/15/95	CM	
Nitrogen-Ammonia as N	2300	mg/kgdrywt	40	8.0	APHA 420/350	02/27/95	BC	1
Phosphorus, Total as P	810	mg/kgdrywt	1.0	25	365.4 (Mod.)	02/16/95	BC	2
Solids-Total Residue (TS)	3.5	wt %	1.0	0.10	CLP/CIP SOW	02/10/95	JF	3

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) Sample Preparation on 02/17/95 by CM
- (2) Sample Preparation on 02/15/95 by BAC
- (3) Sample Preparation on 02/09/95 by JF

02/28/95

LJO/ejngbp(dw)

CC: OLIN(TN)

ATTN: STEVE MORROW BCM-RICK SACKS

Respectfully submitted,

Laura J. O'Meara

Supervisor, Client Services

Field Identification: GU-50S

Matrix: WATER

		Reporting		Date	9C	
Parameter	Result Limit Lab H		Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	250	30	42953-001	02/06/95	630A	300.0/1
Sulfate, dissolved (mg/L)	1100	25	42953-001	02/06/95	630A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BOL	0.02	42953-001	02/02/95	186	365.2/1
Sulfide, dissolved (mg/L)	BOL	1	42953-005	02/02/95	283	376.1/1
Ammonia-H, dissolved (mg/L as H)	110	0.5	42953-009	02/02/95	538	350.2/1

Field Identification: GW-79S

Matrix: WATER

		Reporting		Date	QC		
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.	
Chioride, dissolved (mg/L)	330	30	42953-002	02/06/95	630A	300.0/1	
Sulfate, dissolved (mg/L)	1900	25	42953-002	02/06/95	630A	300.0/1	
Ortho Phosphate, dissolved (mg/L as P)	BOL	.0.02	42953-002	02/02/95	186	365.2/1	
Sulfide, dissolved (mg/L)	2	1	42953-006	02/02/95	283	376.1/1	
Ammonia-N, dissolved (mg/L as N)	220	1	42953-010	02/02/95	538	350.2/1	

Field Identification: GW-78S

Matrix: WATER

		Reporting		Date	QC			
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.		
Chloride, dissolved (mg/L)	49	5	42953-003	02/06/95	630A	300.0/1		
Sulfate, dissolved (mg/L)	470	5.0	42953-003	02/06/95	630A	300.0/1		
Ortho Phosphate, dissolved (mg/L as P)	30 L	0.02	42953-003	02/02/95	186	365.2/1		
Sulfide, dissolved (mg/L)	1	1	42953-007	02/02/95	283	376.1/1		
Ammonia-M, dissolved (mg/L as N)	45	0.5	42953-011	02/02/95	538	350.2/1		

Field Identification: GW-42S

Metrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Nethod/Ref.
Chloride, dissolved (mg/L)	49	1	42953-004	02/06/95	630A	300_0/1
Sulfate, dissolved (mg/L)	15	1.0	42953-004	02/06/95	630A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BOL	0.02	42953-004	02/02/95	186	365.2/1
Suifide, dissolved (mg/L)	BO L	1	42953-008	02/02/95	283	376.1/1
Ammonia-N, dissolved (mg/L as N)	4.3	0.05	42953-012	02/02/95	538	350.2/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984





CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-0201-1 Report Date: 02/17/95

PO No.

: SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX	MATRIX			SAMPLED DATE RECEIVED			
GW-42S	Aqueous	š	CLIEVT		02/03/9	5	02/03/95	
PARAMETER	RESULT UNITS	S DF	*PQL M	ETHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved Chromium, Dissolved	0.41 mg/L <0.015 mg/L			00.7/6010 00.7/6010			1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 02/09/95 by WD using 3010

02/17/95

LJO/ejnabb(dw)/kaw LB09ICW1 CC: OLIN(TN)



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-0201-1 Report Date: 02/17/95

90 No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

Page 2 of 20

SAMPLE DESCRIPTION	M	MATRIX			SAMPLED BY			RECEIVED
GW-42S	A	Aqueous		CLIENT	02/03/95		02/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	44.	mg/L	1.0	2.0	325.2	02/10/95	CM	
Nitrogen-Ammonia as N	4.1	mg/L	4.0	0.10	350.1	02/08/95	BC	
Sulfate	12.	mg/L	1.0	1.0	375.4	02/09/95	LT	
pH (Laboratory)	5.3	pH Units	1.0	0.1	150.1	02/03/95	JF	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/17/95

LJO/ejnabb(dw)/pph

CC: OLIN(TN)



Lab Number : WL-0201-2 Report Date: 02/17/95

PO No.

: SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

CLIENT: DON CAMERON

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	TION MATRIX S			SAMPLED BY		SAMPLED D	RECEIVED	
GW-35S	Aqueous		CLIFNI		02/03/95		02/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved Chromium, Dissolved	<0.10 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010			1 1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 02/09/95 by WD using 3010

02/17/95

LJO/ejnabb(dw)/kaw LB08ICW1

CC: OLIN(TN)



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-0201-2 Report Date: 02/17/95

PO No.

: SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	Μ.	MATRIX			SAMPLED BY			SAMPLED DATE RECEIVED		
CW-35S PARAMETER	P	Aqueous		CLIENT	02/03/95		02/03/95			
	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Chloride	31.	mg/L	1.0	2.0	325.2	02/10/95	СM			
Nitrogen-Ammonia as N	53	mg/L	20	0.10	350.1	02/14/95	BC			
Sulfate	500.	mg/L	50	1.0	375.4	02/09/95	LT			
pH (Laboratory)	6.6	pH Units	1.0	0.1	150.1	02/03/95	JF			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/17/95

LJO/ejnabb(dw)/pph

CC: OLIN (TN)



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-0201-3 Report Date: 02/17/95

PO No. : 3

: SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M				SAMPLED BY		SAMPLED DATE RECEIVE			
GW-19S	Ac						5	02/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL METHOD		ANALYZED B		NOTES		
Aluminum, Dissolved Chromium, Dissolved	<0.10 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010	• •		1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 02/09/95 by WD using 3010

02/17/95

LJO/ejnabb(dw)/kaw LB091CW1 CC: OLIN(TN)



Lab Number: WL-0201-3 Report Date: 02/17/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	r	MATRIX			SAMPLED BY			RECEIVED
GW-19S	4	Aqueous		CLIENT	02/03/95 02/03		02/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	3.3	mg/L	1.0	2.0	325.2	02/10/95	CM	
Nitrogen-Ammonia as N	0.92	mg/L	1.0	0.10	350.1	02/08/95	BC	
Sulfate	1100.	mg/L	100	1.0	375.4	02/09/95	LT	
pH (Laboratory)	6.6	pH Units	1.0	0.1	150.1	02/03/95	JF	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/17/95

LJO/ejnabb(dw)/pph

CC: OLIN (TN)



Lab Number : WL-0201-4 Report Date: 02/17/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	ATRIX		SAMPLE	D BA	SAMPLED D	ATE	RECEIVED
GW-42SD	Α	queous		CLIENT		02/03/9	5	02/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved Chromium, Dissolved	0.39 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010			1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 02/09/95 by WD using 3010

02/17/95

LJO/ejnabb(dw)/kaw LB09ICW1 CC: OLIN(TN)



Lab Number : WL-0201-4

Report Date: 02/17/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	MATRIX Aqueous			SAMPLED BY CLIENT			RECEIVED
GW-42SD	4							02/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	45.	mg/L	1.0	2.0	325.2	02/10/95	CΜ	
Nitrogen-Ammonia as N	3.9	mg/L	4.0	0.10	350.1	02/08/95	BC	
Sulfate	18.	mg/L	1.0	1.0	375.4	02/09/95	LT	
pH (Laboratory)	5.2	pH Units	1.0	0.1	150.1	02/03/95	JF	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/17/95

LJO/ejnabb(dw)/pph

CC: OLIN (TN)



Lab Number: WL-0201-5 Report Date: 02/17/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	ATRIX		SAMPLE	D BY	SAMPLED D	O2/03/95 02/03/95 ANALYZED BY NOTES			
GW-39	А	queous		CLIENT		02/03/95 02/		02/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Dissolved Chromium, Dissolved	0.14 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010	,		_		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 02/09/95 by WD using 3010

02/17/95

LJO/ejnabb(dw)/kaw LB091CW1 CC: OLIN(TN)



Lab Number : WL-0201-5 Report Date: 02/17/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 10 of 20

SAMPLE DESCRIPTION	,	ATRIX	SAMPLED BY SAMPLED DATE CLIENT 02/03/95			SAMPLED D	ATE	RECEIVED
GW-39	,	queous				02/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	28.	mg/L	1.0	2.0	325.2	02/10/95	ŒΜ	
Nitrogen-Ammonia as N	0.53	mg/L	1.0	0.10	350.1	02/08/95	BC	
Sulfate	190.	mg/L	20	1.0	375.4	02/09/95	LT	
pH (Laboratory)	6.0	pH Units	1.0	0.1	150.1	02/03/95	JF	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/17/95

LJO/ejnabb (dw) /pph

CC: OLIN (TN)



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-0201-6 Report Date: 02/17/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	ATRIX		SAMPLE	D BY	SAMPLED D			
GW-25	A	Aqueous CLIE		CLIENT		02/03/95 02/03/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved Chromium, Dissolved	<0.10 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010			1 1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 02/09/95 by WD using 3010

02/17/95

LJO/ejnabb(dw)/kaw LB09ICW1

CC: OLIN(TN)



Lab Number : WL-0201-6 Report Date: 02/17/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TATRIX		SAMPLED :	BY	SAMPLED D	ATE	RECEIVED
GW-25	7	Aqueous	CLIENT			02/03/95		02/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	85.	mg/L	1.0	2.0	325.2	02/15/95	ΩM	
Nitrogen-Ammonia as N	75	mg/L	40	0.10	350.1	02/14/95	BC	
Sulfate	260.	mg/L	50	1.0	375.4	02/09/95	LT	
pH (Laboratory)	6.6	pH Units	1.0	0.1	150.1	02/03/95	JF	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/17/95

LJO/ejnabb(dw)/pph

CC: OLIN (TN)



Lab Number: WL-0201-7 Report Date: 02/17/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	MATRIX SAMPLED BY					TA	RECEIVED	
GW-24	А	queous	CLIENT			02/03/95		02/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	02/10/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/10/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 02/09/95 by WD using 3010

02/17/95

LDO/ejnabb(dw)/kaw LB09ICWl

FAX: 207-775-4029

CC: OLIN (TN)



Lab Number : WL-0201-7 Report Date: 02/17/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	м	ATRIX		SAMPLED !	ву	SAMPLED D	2/15/95 CM			
GW-24	А	queous					02/03/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Chloride	110.	mg/L	2.0	2.0	325.2	02/15/95	ŒΜ			
Nitrogen-Ammonia as N	130	mg/L	40	0.10	350.1	02/14/95	BC			
Sulfate	310.	mg/L	50	1.0	375.4	02/09/95	LT			
pH (Laboratory)	7.5	pH Units	1.0	0.1	150.1	02/03/95	JF			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/17/95

LJO/ejnabb(dw)/pph

CC: OLIN (TN)



Lab Number: WL-0201-8 Report Date: 02/17/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	ATRIX		SAMPLE	D BY	SAMPLED D	02/03/95 02/03/95			
GW-10S	A	queous	_	CLIENT		02/03/9	5	02/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Dissolved Chromium, Dissolved	2.7 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010			_		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 02/09/95 by WD using 3010

02/17/95

LJO/ejnabb(dw)/kaw LB09ICW1

CC: OLIN (TN)



Lab Number : WL-0201-8 Report Date: 02/17/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	MATRIX			SAMPLED BY			RECEIVED
GW-10S	F	queous	CLIENT 02/03/95 (02/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	3.1	mg/L	1.0	2.0	325.2	02/15/95	CM	
Nitrogen-Ammonia as N	<0.10	mg/L	1.0	0.10	350.1	02/08/95	BC	
Sulfate	13.	mg/L	2.0	1.0	375.4	02/09/95	LT	
pH (Laboratory)	4.6	pH Units	1.0	0.1	150.1	02/03/95	JF	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/17/95

LJO/ejnabb(dw)/pph

CC: OLIN (TN)



Lab Number: WL-0201-9 Report Date: 02/17/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	ATRIX		SAMPLE	D BY	SAMPLED D					
GW-26	А	queous		CLIENT		02/03/95 02/03/95			02/03/95		02/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES			
Aluminum, Dissolved Chromium, Dissolved	<0.10 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010			_			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 02/09/95 by WD using 3010

02/17/95

LJO/ejnabb(dw)/kaw LB09ICW1

CC: OLIN (TN)



Lab Number : WL-0201-9 Report Date: 02/17/95

PO No. : :

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 18 of 20

SAMPLE DESCRIPTION	MATRIX SAMPLED BY			SAMPLED D	SAMPLED DATE RECEIVED			
GW-26	P	queous	CLIENT 02/03/95 02/			02/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	53.	mg/L	1.0	2.0	325.2	02/15/95	CΜ	
Nitrogen-Ammonia as N	62	mg/L	20	0.10	350.1	02/14/95	BC	
Sulfate	260.	mg/L	20	1.0	375.4	02/09/95	LT	
pH (Laboratory)	6.3	pH Units	1.0	0.1	150.1	02/03/95	JF	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/17/95

LJO/ejnabb(dw)/pph

CC: OLIN (TN)



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-0201-10 Report Date: 02/17/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		ATRIX		SAMPLE	D BY	SAMPLED D	RECEIVED	
GW-11	Aqueous		CLIENT		02/03/95		02/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved Chromium, Dissolved	<0.10 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010			1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 02/09/95 by WD using 3010

02/17/95

LJO/ejnabb(dw)/kaw LB09ICW1

CC: OLIN (TN)



Lab Number : WL-0201-10 Report Date: 02/17/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED D	02/03/95 02/03/95 NALYZED BY NOTES			
GW-11	7	queous	CLIENT 02/03/95 (02/03/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chloride	46.	mg/L	1.0	2.0	325.2	02/15/95	СМ		
Nitrogen-Ammonia as N	45	mg/L	20	0.10	350.1	02/14/95	BC		
Sulfate	290.	mg/L	50	1.0	375.4	02/09/95	LT		
pH (Laboratory)	6.6	pH Units	1.0	0.1	150.1	02/03/95	JF		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/17/95

LJO/ejnabb(dw)/pph

CC: OLIN (TN)

ATTN: STEVE MORROW

Respectfully submitted,

PACE, INC.

Laura J. O'Meara

Supervisor, Client Services

Field Identification: GW-77S FILTERED

Matrix: WATER

		Reporting		Date	QC	
Parameter	Resul t	Limit	Lab No.	Analyzed	Betch	Method/Ref.
Chloride, dissolved (mg/L)	50	2	42965-001	02/06/95	630A	300.0/1
Sulfate, dissolved (mg/L)	35	2.0	42965-001	02/06/95	630A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BOL	0.02	42965-001	02/03/95	188	365.2/1
Sulfide, dissolved (mg/L)	2	1	42965-006	02/06/95	284	376.1/1
Ammonia-N, dissolved (mg/L as N)	0.30	0.05	42965-011	02/08/95	540	350.2/1

Field Identification: GM-77\$ DUP FILTERED

Matrix: WATER

		Reporting		Date	oc	
Parameter	Resul t	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	52	2	42965-002	02/06/95	630A	300.0/1
Sulfate, dissolved (mg/L)	35	2.0	42965-002	02/06/95	630A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	8DL	0.02	42965-002	02/03/95	188	365.2/1
Sulfide, dissolved (mg/L)	30 L	1	42965-007	02/06/95	284	376.1/1
Ammonia-N, dissolved (mg/L as N)	0.4	0.1	42965-012	02/08/95	540	350.2/1

Field Identification: GW-77S MS FILTERED

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result Limit		Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	60	2	42965-003	02/06/95	630A	300.0/1
Sulfate, dissolved (mg/L)	51	2.0	42965-003	02/06/95	630A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.46	0.02	42965-003	02/03/95	188	365.2/1
Sulfide, dissolved (mg/L)	44	1	42965-008	02/06/95	284	376.1/1
Ammonia-N, dissolved (Mg/L as N)	2.3	0.1	42965-013	02/08/95	540	350.2/1

Field Identification: GW-77SD FILTERED

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	48	2	42965-004	02/06/95	630A	300.0/1
Sulfate, dissolved (mg/L)	34	2.0	42965-004	02/06/95	630A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BOL	0.02	42965-004	02/03/95	188	365.2/1
Sulfide, dissolved (mg/L)	1	1	42965-009	02/06/95	284	376.1/1
Ammonia-N, dissolved (mg/L as N)	0.35	0.05	42965-014	02/08/95	540	350.2/1



Field Identification: GW-76S FILTERED

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	28	2	42965-005	02/06/95	630A	300.0/1
Sulfate, dissolved (mg/L)	160	2.0	42965-005	02/06/95	630A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BOL	0.02	42965-005	02/03/95	188	365.2/1
Sulfide, dissolved (mg/L)	14	1	42965-010	02/06/95	284	376.1/1
Ammonia-N, dissolved (mg/L as N)	30	0.5	42965-015	02/08/95	540	350.2/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984



Field Identification: WL0226-1

Matrix: SOLID

	Reporting			Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed		Method/Ref.
Total Organic Carbon (ug/g)	210000	100	43026-001			See Text

Field Identification: WL0226-1 DUP

Matrix: SOLID

	Reporting			Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed		Method/Ref.
Total Organic Carbon (ug/g)	170000	100	43026-002	02/14/95		See Text

Results expressed on a dry weight basis.



Lab Number : WL-0925-1 Report Date: 07/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 1 of 4

SAMPLE DESCRIPTION	MAT	MATRIX			SAMPLED BY			SAMPLED DATE RECEIVED		
FLOC WF-2	Sol					05/04/95		05/25/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Antimony, Total	<60	mg/kg	1.0	50	6010	06/27/95	KW	1		
Arsenic, Total	<60	mg/kg	1.0	50	6010	06/27/95	KW	1		
Barium, Total	B4600	mg/kg	50	0.50	6010	06/27/95	KW	1,2		
Beryllium, Total	6.1	mg/kg	1.0	0.50	6010	06/27/95	KW	1		
Cadmium, Total	<1.2	mg/kg	1.0	1.0	6010	06/27/95	KW	1		
Calcium, Total	2700.	mg/kg	1.0	5.0	6010	06/27/95	KW	1		
Cobalt, Total	<3.6	mg/kg	1.0	3.0	6010	06/27/95	KW	1		
Copper, Total	25.	mg/kg	1.0	2.5	6010	06/27/95	KW	1		
Lead, Total	<24	mg/kg	1.0	20	6010	06/27/95	KW	1		
Magnesium, Total	380.	mg/kg	1.0	5.0	6010	06/27/95	KW	1		
Manganese, Total	46.	mg/kg	1.0	0.50	6010	06/27/95	KW	1		
Nickel, Total	8.8	mg/kg	1.0	4.0	6010	06/27/95	KW	1		
Potassium, Total	2800.	mg/kg	1.0	50.	6010	06/27/95	KW	1		
Silicon, Total	1200.	mg/kg	2.0	0.10	200.7	06/27/95	KW	1		
Silver, Total	<1.8	mg/kg	1.0	1.5	6010	07/06/95	KW	1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/10/95

LJO/ejnejn LE31ICS1

CC: STEVE MORROW-OLIN(IN)
RICK SACKS-SMITH/BCM
ANDY DAVIS-PII

⁽¹⁾ Sample Preparation on 05/31/95 by VM using 3050

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of barium in the method blank was 5.3 mg/kg.



Lab Number: WL-0925-1

Report Date: 07/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 2 of 4

SAMPLE DESCRIPTION	LAM	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
FLCC WF-2	Sol	Solid			CLIENT			05/25/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sodium, Total	8700.	mg/kg	1.0	10	6010	06/27/95	KW	1	
Vanadium, Total	11.	mg/kg	1.0	2.5	6010	06/27/95	KW	1	
Zinc, Total	3400.	mg/kg	50	2.5	6010	06/27/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 05/31/95 by VM using 3050

07/10/95

LJO/ejnejn LE31ICS1

CC: STEVE MORROW-OLIN (TN) RICK SACKS-SMITH/BOM ANDY DAVIS-PTI



Lab Number: WL-0925-2 Report Date: 07/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 3 of 4

SAMPLE DESCRIPTION	MAI	3Y	SAMPLED DATE RECEIVED					
FLOC RP-2	Solid		CLIENT			05/03/95		05/25/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Antimony, Total	<50	mg/kg	1.0	50	6010	06/27/95	KW	1
Arsenic, Total	<50	mg/kg	1.0	50	6010	06/27/95	KW	1
Baxium, Total	B32	mg/kg	1.0	0.50	6010	06/27/95	KW	1,2
Beryllium, Total	6.7	mg/kg	1.0	0.50	6010	06/27/95	KW	1
Cadmium, Total	2.8	mg/kg	1.0	1.0	6010	06/27/95	KW	1
Calcium, Total	950.	mg/kg	1.0	5.0	6010	06/27/95	KW	1
Cobalt, Total	15.	mg/kg	1.0	3.0	6010	06/27/95	KW	1
Copper, Total	270.	mg/kg	10	2.5	6010	06/27/95	KW	1
Lead, Total	<190	mg/kg	10	20	6010	06/27/95	KW	1,3
Magnesium, Total	1100.	mg/kg	1.0	5.0	6010	06/27/95	KW	1
Manganese, Total	85.	mg/kg	1.0	0.50	6010	06/27/95	KW	1
Nickel, Total	18.	mg/kg	1.0	4.0	6010	06/27/95	KW	1
Potassium, Total	560.	mg/kg	1.0	50.	6010	06/27/95	KW	1,4

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/10/95

LJO/ejnejn LE31ICS1

CC: STEVE MORROW-OLIN(TN)
RICK SACKS-SMITH/BCM
ANDY DAVIS-PTI

⁽¹⁾ Sample Preparation on 05/31/95 by VM using 3050

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of barium in the method blank was 4.1 mg/kg.

⁽³⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽⁴⁾ Duplicate analyses were performed on this sample for this parameter. The precision of the duplicate results is outside the laboratory's acceptance range. Sample homogeneity may be a factor. The individual results were 560 and 360.



Lab Number : WL-0925-2
Report Date: 07/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 4 of 4

SAMPLE DESCRIPTION	MATRIX			SAMPLED 1	SAMPLED DATE RECEIVED			
FLOC RP-2 PARAMETER				CITEM	05/03/95		05/25/95	
	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Total	6200.	mg/kg	20	0.10	200.7	06/27/95	KW	1,2
Silver, Total	<1.5	mg/kg	1.0	1.5	6010	07/06/95	KW	1
Sodium, Total	400.	mg/kg	1.0	10	6010	06/27/95	KW	1,3
Vanadium, Total	81.	mg/kg	10	2.5	6010	06/27/95	KW	1
Zinc, Total	110.	mg/kg	1.0	2.5	6010	06/27/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 05/31/95 by VM using 3050

- (2) Duplicate analyses were performed on this sample for this parameter. The precision of the duplicate results is outside the laboratory's acceptance range. Sample homogeneity may be a factor. The individual results were 6200 and 4500.
- (3) Duplicate analyses were performed on this sample for this parameter. The precision of the duplicate results is outside the laboratory's acceptance range. Sample homogeneity may be a factor. The individual results were 400 and 290.

07/10/95

LJO/ejnejn LE31S1

CC: STEVE MORROW-OLIN(TN)
RICK SACKS-SMITH/BCM
ANDY DAVIS-PTI

Respectfully submitted,

found a Mara

Laura J'. O'Meara

Supervisor, Client Services



Lab Number : WL-0817-1 Report Date: 06/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 1 of 3

SAMPLE DESCRIPTION	DAM	MATRIX			SAMPLED BY			SAMPLED DATE RECEIVED		
FLOC WF-2	Sol	Solid		CITEML	05/04/95		05/25/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Total	77000	mg/kg	20	10	6010	06/01/95	KW	1		
Chromium, Total	B2500	mg/kg	20	1.5	6010	06/01/95	KW	1,2		
Iron, Total	B26000	mg/kg	20	2.5	6010	06/01/95	KW	1,3		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

06/06/95

LJO/ejnejn/kew LE31ICS1 CC: OLIN(TN)

⁽¹⁾ Sample Preparation on 05/31/95 by VM using 3050

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of chromium in the method blank was 3.6 mg/kg.

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 23 mg/kg.



Lab Number : WL-0817-2 Report Date: 06/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
CLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 2 of 3

SAMPLE DESCRIPTION	MAI	RIX		SAMPLED	BY	SAMPLED I	ATE	RECEIVED	
FLOC RP-2	Sol	CLIENT			05/03/95		05/25/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total Chromium, Total Iron, Total	70000 B35000 B180000	mg/kg mg/kg mg/kg	20 100 100	1.5	6010 6010 6010	06/01/95 06/01/95 06/01/95		1,2 1,3,4 1,5,6	

- * PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
- (1) Sample Preparation on 05/31/95 by VM using 3050
- (2) Duplicate analyses were performed on this sample for this parameter. The precision of the duplicate results is outside the laboratory's acceptance range. Sample homogeneity may be a factor. The individual results were 70000 and 53000.
- (3) Duplicate analyses were performed on this sample for this parameter. The precision of the duplicate results is outside the laboratory's acceptance range. Sample homogeneity may be a factor. The individual results were 35000 and 26000.
- (4) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of chromium in the method blank was 2.8 mg/kg.
- (5) Duplicate analyses were performed on this sample for this parameter. The precision of the duplicate results is outside the laboratory's acceptance range. Sample homogeneity may be a factor. The individual results were 180000 and 130000.
- (6) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 18 mg/kg.

06/06/95

LJO/ejnejn/kew LE31ICS1

CC: OLIN (TN)



Lab Number : WL-0817-2 Report Date: 06/06/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 3 of 3

SAMPLE DESCRIPTION	LAM.	RIX		SAMPLED :	BY	SAMPLED DAT		E RECEIVED	
FLCC RP-2	Sol	Solid			CITEML			05/25/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chloride Sulfate	210. 740.	mg/kg mg/kg			9251 9038	05/31/95 05/31/95	BC LT	1 1	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 05/30/95 by JF using ASTM D3987

06/06/95

LJO/ejnejn/pph

CC: OLIN (TN)

ATTN: STEVE MORROW

Respectfully submitted,

PACE, INC.

Jaura J. O'Mkara Laura J. O'Meara

Supervisor, Client Services

Field Identification: GW-56S (FILT)

Matrix: WATER

		Reporting		Date	QC		
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Re	
Chloride, dissolved (mg/L)	36	1	43911-001	05/09/95	712	325.1/1	
Sulfate, dissolved (mg/L)	160	5	43911-001	05/08/95	643A	375.4/1	
Bromide, dissolved (mg/L)	1	1	43911-001	05/08/95	643A	300.0/1	
Ortho Phosphate, dissolved (mg/L as P)	12	2	43911-001	05/05/95	194	365.2/1	
Sulfide, dissolved (mg/L)	BOL	1	43911-005	05/08/95	296	376.1/1	
Ammonia-N, dissolved (mg/L as N)	6.9	0.05	43911-009	05/05/95	554	350.2/1	

Field Identification: GW-8 (FILT)

Matrix: WATER

		Reporting		Date	QC		
Parameter	Resul t	Limit	Lab No.	Analyzed	Batch	Method/Ref.	
Chloride, dissolved (mg/L)	120	1	43911-002	05/09/95	712	325.1/1	
Sulfate, dissolved (mg/L)	710	10	43911-002	05/08/95	643A	375.4/1	
Bromide, dissolved (mg/L)	1	1	43911-002	05/08/95	643A	300.0/1	
Ortho Phosphate, dissolved (mg/L as P)	0.03	0.02	43911-002	05/05/95	194	365.2/1	
Sulfide, dissolved (mg/L)	BDL	1	43911-006	05/08/95	296	376.1/1	
Ammonia-N, dissolved (mg/L as N)	140	0.5	43911-010	05/05/95	554	350.2/1	

Field Identification: SW-18 (FILT)

Matrix: WATER

	Reporting			Date	QC		
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.	
Chloride, dissolved (mg/L)	24	1	43911-003	05/09/95	712	325.1/1	
Sulfate, dissolved (mg/L)	140	5	43911-003	05/08/95	643A	375.4/1	
Bromide, dissolved (mg/L)	BDL	1	43911-003	05/08/95	643A	300.0/1	
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	43911-003	05/05/95	194	365.2/1	
Sulfide, dissolved (mg/L)	BOL	1	43911-007	05/08/95	296	376.1/1	
Ammonia-N, dissolved (mg/L as N)	1.4	0.05	43911-011	05/05/95	554	350.2/1	



Field Identification: SW-18 (UNFILT)

Matrix: WATER

			Date	QC		
Parameter	Resul t	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride (mg/L)	24	1	43911-004	05/09/95	712	325.1/1
Sulfate (mg/L)	130	5	43911-004	05/08/95	643A	375.4/1
Bromide (mg/L)	BDL	1	43911-004	05/08/95	643A	300.0/1
Ortho Phosphate (mg/L as P)	BDL	0.02	43911-004	05/05/95	194	365.2/1
Sulfide (mg/L)	BDL	1	43911-008	05/08/95	296	376.1/1
Ammonia-N (mg/L as N)	2.0	0.05	43911-012	05/05/95	554	350.2/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984



HUI-FMAN

JUSTONER 4: 05232

-ABORATORIES, INC.

Quality Analytical Services Since 1936 4630 Indiana Street • Golden, CO 80403 Phone: (303) 276-4455 • FAX: (303) 278-7012

DATE 5/24/95 LAB# 171495 P.O. C692-0301 RECD 05/10/95

ANALYSIS REPORT

CHRIS SELLSTONE PTI ENVIRONMENTAL SERVICE 2995 BASELINE RD, STE 202 BOULDER CO 80303

" Total morganic railson as C"

SEQUENCE/ SAMPLE NUMBER

ANALYSIS

CARBONATE C-MG/L

> 'Dissolved CO2 as C"

01/GWB 79628/79629- - 27.

02/QW428 79623- - - - 40.

(Oz Hilly 4

Total (automati-Carter

03/GW500 79611- - - - 39.

04/GW565 79559- - - - 11.

05/GW76S 7961/- - - - 30.

'GW'75 79621- - - 25.

√//GW788 79605- - - - 21.

08/GW795 79603 - - - 67.

 $09/9W^{\perp}11$ 79615- - - - 10.

11/9W-14 79619- - - - 13.

 $12/8W_{7}15$ 79609---14.

13/8W-16 79601- - - G.

14/8W-17 79606- - - - 19.

15/8W=18 79630- - - 4.

per C. Sellstone results of 2/95

6/13- pu C. Sellstone-

enter as

"Total carbonate as (" - "I" code

IO68 ?

Carbonate, Total as C

Enter duta as filtered

SAMPLE 02 - 79624, SAMPLE 03 - 79612, SAMPLE 04 - 79627, SAMPLE 05 - 79618, SAMPLE 06 - 79622, SAMPLE 07 - 79608, SAMPLE 08 - 79604, SAMPLE 09 - 79616, SAMPLE 10 - 79626, SAMPLE 11 - 79620, SAMPLE 12 - 79610, SAMPLE 13 - 79602, SAMPLE 14 - 79607, AND SAMPLE 15 - 79631

I DATA ATTACHED.

HUFFMAN

CUSTOMER #:

LABORATORIES, INC.

Quality Analytical Services Since 1936

4630 indiana Street • Golden, CO 80403 Phone: (303) 278-4455 • FAX: (303) 278-7012 DATE 2/3/95 LAB# 108095 P.O. C6920201 RECD 01/19/95

ANALYSIS REPORT

CHRIS SELLSTONE
PTI ENVIRONMENTAL SERVICE
2995 BASELINE RD, STE 202
BOULDER CO 80303

Enter as

Dissolved CO, as C

SEQUENCE/ SAMPLE NUMBER

ANALYSIS

CARBONATE C-MG/L

01/5000011 79209- - 171. - GW-62-BR .

02/5000014 79318- - 164.-GW-45-D

03/5000015 79327- - - 21. -6W-45-S

04/S000016 79309- - 124. - CW-36

05/S000017 79345- - - 8.-6W-64-5 (Redicate)

06/S000018 79357- - - 7.- GW-64-5

07/S000018MS 79384- - 9.- GW-64-5 (Spike)

08/5000019 79366- - 9. - GW-64-5 (Dup)

09/5000020 79375- - - 33.-GW-64-D

10/5000031 79231- - 104. 4-6W42D

RAW DATA ATTACHED.

THE BUT THE THE STATE OF THE ST

CUSTOMER & 05233

HUFFMAN

LABORATORIES, INC.

Quality Analytical Services Since 1936

4630 Indiana Street · Golden, CO 80403 Phone: (303) 278-4455 • FAX: (303) 278-7012 DATE 1/20/95 LAB# 105895 P.O. _31C692-1 RECD 01/17/95

ANALYSIS REPORT

LINDA BLISS PTI ENVIRONMENTAL SERVICE 2995 BASELINE RD. STE.202 BOULDER CO 80303

SEQUENCE/ SAMPLE NUMBER ANALYSIS

CARBONATE C-MG/L

01/S000008 79228- - - 51. - Gw-62-5

'S000009 79229- - - 28.-GW-62-D

03/S000010 79230- - 180.-Gw-50-D

04/S000012 79218- - - 18.-GW-58-5

05/S000013 79227- - 119.-GW-58-D

RAW DATA ATTACHED.

Total inorganic carbon as C



Lab Number : WL-0668-6 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED DATE RECRIVED			
GW-76S (FILT)	Aqueous			T.EBNER B.MCGIL	•	05/03/9	5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZRD	BY	NOTES
Bicarbonate, Dissolved as HCO3	58.	mg/L	1.0	20	APHA 406C	05/05/95	CM	<u></u>
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	25	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	2.4	mg/L	2.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	22	mg/L	1.0	0.5	350.2	05/05/95	NH	1
Organic Carbon, Dissolved (DOC)	4.1	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	0.18	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids-Filt Residue, Dissolved	230.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	140.	mg/L	1.0	2.	300.0	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

⁽¹⁾ Sample Preparation on 05/05/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/16/95 by BAC

⁽³⁾ Sample Preparation on 05/05/95 by JF



Lab Number: WL-0668-6

PO No.

Report Date: 05/24/95

OLIN CHEMICALS

CLIENT: DON CAMERON

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED
GW-76S (FILIT)	Aquecus	T.EBNER/ B.MCGILLICUDDY	05/03/95 05/03/95
PARAMETER	RESULT UNITS D	*PQL METHOD	ANALYZED BY NOTES
Sulfide, Dissolved	3. mg/L 1.	1 376.1	05/04/95 NH

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

CC: STEVE MORROW-OLIN, TN RICK SACKS-SMITH/ BOM ENGINEERS

ONE PLYMOUTH MEETING



Lab Number: WL-0668-1 Report Date: 05/24/95

PO No. : F

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 1 of 119

SAMPLE DESCRIPTION		MATRIX			ED BY	SAMPLED D	RECEIVED	
GW-79S (FILIT)	·	Aqueous			ER/	05/03/9	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	WEITHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.011	mg/L	1.0	0.005	200.7/6010	05/12/95	KW	1
Calcium, Dissolved	350	mg/L	5.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/12/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	28	mg/L	5.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	18	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	2.0	mg/L	1.0	0.005	200.7/6010	05/12/95	KW	1
Potassium, Dissolved	6.7	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb (dw) /kew LE11ICW1

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



Lab Number : WL-0668-1

Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 2 of 119

SAMPLE DESCRIPTION		MATRIX			ED BY	SAMPLED D	RECEIVED	
W-79S (FILT) Aqueous		T.EBN B.MOG	05/03/95		05/03/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved Sodium, Dissolved	3.5 310	mg/L	1.0 5.0		200.7/6010 200.7/6010			-

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE13ICW2

CC: STEVE MORROW-OLIN, IN RICK SACKS-SMITH/ BCM ENGINEERS ONE PLYMOUTH MEETING

> P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 05/13/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/11/95 by VM using 3010



Iab Number : WL-0668-1 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
GW-79S (FILIT)	Aqueous			T.EBNER B.MCGIL	•	05/03/9	5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCCC3	160.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	70.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	280	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	3.1	mg/L	10	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	250	mg/L	1.0	3	350.2	05/05/95	NH	1
Organic Carbon, Dissolved (DOC)	22.	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365. 4	05/12/95	BC	2
Solids-Filt Residue, Dissolved	3900.	mg/L	2.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	1900.	mg/L	1.0	20.	300.0	05/05/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

⁽¹⁾ Sample Preparation on 05/05/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/11/95 by NEN

⁽³⁾ Sample Preparation on 05/05/95 by JF



Lab Number: WL-0668-1

Report Date: 05/24/95

PO No.

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	MATRIX				SAMPLED DATE RECEIVED			
GW-79S (FILT)	Acq				T.EBNER/ B.MOGILLICUDDY		5	05/03/95	
PARAMETER	RESOLT	UNITS	DF	*PQL	METHOD	ANALYZED	ву	NOTES	
Sulfide, Dissolved	3.	mg/L	1.0		376.1	05/04/95	NH		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)



Lab Number: WL-0668-2 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	SAMPLED D	RECEIVED	
GW-78S (FILT)	Aqueous			T.EBN B.MCG	SEY	05/03/9	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.28	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	· <0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.015	mg/L	1.0	0.005	200.7/6010	05/12/95	KW	1
Calcium, Dissolved	7 5	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Chromium, Dissolved	0.097	mg/L	1.0	0.015	200.7/6010	05/12/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	0.097	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	3.4	mg/L	1.0	0.025	200.7/6010	05/12/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	3.4	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	0.68	mg/L	1.0	0.005	200.7/6010	05/12/95	KW	1
Potassium, Dissolved	1.9	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE11ICWL

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



Lab Number: WL-0668-2

Report Date: 05/24/95

PO No.

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

· REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX			SAMPLED BY			RECEIVED	
GW-78S (FILIT)		Aqueous		T.EBNER/ B.MCGILLICUDDY		05/03/95		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Silicon, Dissolved Sodium, Dissolved	5.1 26	mg/L	2.0		200.7/6010 200.7/6010				

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb (dw) /kew LE13ICW2 CC: STEVE MORROW-OLIN, TN RICK SACKS-SMITH/ BOM ENGINEERS ONE PLYMOUTH MEETING

⁽¹⁾ Sample Preparation on 05/13/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/11/95 by VM using 3010



CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-0668-2 Report Date: 05/24/95

PO No.

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REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
GW-78S (FILIT)	Aqueous			T.EENER B.MOGIL		05/03/9	5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	21.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	24	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	52	mg/L	1.0	0.5	350.2	05/04/95	NH	ı
Organic Carbon, Dissolved (DOC)	4.4	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	0.16	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids-Filt Residue, Dissolved	550.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	370.	mg/L	1.0	4.	300.0	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

⁽¹⁾ Sample Preparation on 05/04/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/16/95 by BAC

⁽³⁾ Sample Preparation on 05/05/95 by JF



Lab Number: WL-0668-2

Report Date: 05/24/95

OLIN CHEMICALS

CLIENT: DON CAMERON

51 EAMES STREET

PO No. : ▶

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (FILT)	Aqueous			T.EBNER/ B.MCGILLICODD	05/03/95 Y	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL METHO	D ANALYZED BY	NOTES
Sulfide, Dissolved	2.	mg/L	1.0	1 376.1	05/04/95 NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)



CLIENT: DON CAMERON

OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887 Lab Number : WL-0668-3 Report Date: 05/24/95

PO No. : ▶

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	RECEIVED	
GW-78S (FILIT/MS)	Aqueous			T.EEN B.MCG	ER/	05/03/9	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	2.40	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	0.036	mg/L	2.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	2.03	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	81.4	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	0.312	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	1.75	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	05/21/95	DN	4
Iron, Dissolved	5.67	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	0.020	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	8.21	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	1.33	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	23.7	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew/pph LE11ICW1

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195

⁽⁴⁾ This is a calculation and is not applicable to a matrix spike.



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-0668-3

PO No. : >

Report Date: 05/24/95

CLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLE			ED BY	SAMPLED D	DATE RECEIVED		
GW-78S (FILT/MS)	•	Aqueous			T.EENER/ B.MCGILLICUDDY		5	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Silicon, Dissolved Sodium, Dissolved	8.26 35.6	mg/L mg/L	2.0 1.0		200.7/6010 200.7/6010			_	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew/pph LE13ICW2

⁽¹⁾ Sample Preparation on 05/13/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/11/95 by VM using 3010



Lab Number: WL-0668-3 Report Date: 05/24/95

PO No. : >

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY			ву	SAMPLED I	MIE	E RECEIVED	
GW-78S (FILIT/MS)	Aqueous			T.EBNER B.MCGIL	*	05/03/9)5	05/03/95
PARAMETER	RESULT	UNITS	DP	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	137.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	10	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	80.5	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	77	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.050	353.2	05/10/95	BC	1
Nitrite as N, Dissolved	0.499	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	110	mg/L	1.0	0.5	350.2	05/04/95	NH	2
Organic Carbon, Dissolved (DOC)	45.9	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	0.51	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	1.05	mg/L	1.0	0.10	365.4	05/17/95	BC	3

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

⁽¹⁾ NA=This is a calculation and is not applicable to a matrix spike.

⁽²⁾ Sample Preparation on 05/04/95 by NH using 350.2

⁽³⁾ Sample Preparation on 05/16/95 by BAC



Lab Number: WL-0668-3

Report Date: 05/24/95

PO No.

. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
GW-78S (FILT/MS)	Aq	Aqueous			T.EBNER/ B.MOGILLICUDDY)5	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Solids-Filt Residue, Dissolved Sulfate, Dissolved Sulfide, Dissolved	Not Appl. 400. 41.	mg/L mg/L mg/L	1.0 1.0 1.0	4.	160.1 300.0 376.1	05/08/95 05/04/95 05/04/95	NH		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

⁽¹⁾ Sample Preparation on 05/05/95 by JF

⁽²⁾ NA-Matrix spike analysis is not applicable for this parameter.



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-0668-4
Report Date: 05/24/95

PO No. : 📡 🚟

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPL	ed by	SAMPLED DATE RECEIVED		
GW-78S (FILT/DUP)	Aqueous		T.EENER/ B.MOGILLICUDDY		05/03/95		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.224	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.010	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	69.1	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	0.074	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	1.77	mg/L	1.0	0.015	6010	05/05/95	KW	3,4
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	05/21/95	DN	5
Iron, Dissolved	6.24	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	. 3.50	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	0.795	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb (dw) /kew/pph

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195

⁽⁴⁾ A matrix spike was analyzed for hexavalent chromium rather than the client requested duplicate.

⁽⁵⁾ This is a calculation and is not applicable to a matrix spike.



Lab Number: WL-0668-4

Report Date: 05/24/95

PO No.

CLIENT: DON CAMERON

OLIN CHEMICALS 51 KAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MPLE DESCRIPTION MATRIX SAMPLED BY SAMPLED DATE						ATE	TE RECEIVED		
GW-78S (FILIT/DUP)		Aqueous T.EBNER/ B.MCGILLICUDDY			05/03/95		05/03/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Potassium, Dissolved	1.70	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1		
Silicon, Dissolved	6.06	mg/L	2.0	0.10	200.7/6010	05/17/95	KW	2		
Sodium, Dissolved	28.1	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew/pph LE11ICW1

CC: STEVE MORROW-OLIN, TN RICK SACKS-SMITH/ BCM ENGINEERS

ONE PLYMOUTH MEETING

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/13/95 by VM using 3010



Lab Number: WL-0668-4

Report Date: 05/24/95

PO No.

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CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY			ВУ	SAMPLED D	RECEIVED		
GW-78S (FILIT/DUP)	Aqueous			T.EBNER B.MCGIL	•	05/03/9	5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCC3	<20.0	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	<15.0	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	24	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	44	mg/L	1.0	0.5	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	4.06	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	0.376	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids-Filt Residue, Dissolved	465	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved .	370.	mg/L	1.0	4.	300.0	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

⁽¹⁾ Sample Preparation on 05/04/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/16/95 by BAC

⁽³⁾ Sample Preparation on 05/05/95 by JF



CLIENT: DON CAMERON

OLIN CHEMICALS 51 HAMES STREET WILMINGTON, MA 01887 Lab Number: WL-0668-4 Report Date: 05/24/95

PO No. : >

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MX	TRIX	SAMPLED BY	SAMPLED DATE	E RECEIVED	
GW-78S (FILIT/DOP)	Aq	ueous	T.EBNER/ B.MOGILLICODDY	05/03/95	05/03/95	
PARAMETER	RESULT	UNITS D	F *PQL METHOD	ANALYZED BY	NOTES	
Sulfide, Dissolved	<1	mg/L 1.	1 376.1	05/04/95 NH		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)



Lab Number : WL-0668-5 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY			SAMPLED D	RECEIVED		
GW-50S (FILIT)		Aqueous			ER/	05/03/9	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	WEIHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	КW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.013	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	. 150	mg/L	5.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.032	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	34	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	4.1	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	11	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE11ICW1

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



Lab Number: WL-0668-5

Report Date: 05/24/95

PO No.

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CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	•	MATRIX SAMPLED BY				SAMPLED D	MIE	RECEIVED
GW-50S (FILIT)		Aquecus T.EENER/ B.MCGILLICUDDY				05/03/9	05/03/95	
PARAMETER	RESULT	r units	DF	*PQL	METHOD	ANALYZED	ву	NOTES
Silicon, Dissolved Sodium, Dissolved	7. 4 310	mg/L	2.0 5.0		200.7/6010 200.7/6010	05/17/95 05/15/95	KW KW	_

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE13ICW2

CC: STEVE MORROW-OLIN, TN RICK SACKS-SMITH/ BOM ENGINEERS

ONE PLYMOUTH MEETING

⁽¹⁾ Sample Preparation on 05/13/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/11/95 by VM using 3010



Lab Number: WL-0668-5 Report Date: 05/24/95

PO No.

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CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				BY	SAMPLED D	RECRIVED	
GW-50S (FILIT)	Aqueous .			T.EBNER B.MCGIL	•	05/03/9	95	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCCC3	61.	mg/L	1.0	20	APHA 406C	05/05/95	CM.	
Bromide, Dissolved	2	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCC3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	23.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	280	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	5.7	mg/L	10	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	140	mg/L	1.0	3	350.2	05/05/95	NH	1
Organic Carbon, Dissolved (DOC)	7.6	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	0.32	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids-Filt Residue, Dissolved	1600.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	1200.	mg/L	1.0	20.	300.0	05/08/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejneng/jbb(dw)

⁽¹⁾ Sample Preparation on 05/05/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/16/95 by BAC

⁽³⁾ Sample Preparation on 05/05/95 by JF



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-0668-5 Report Date: 05/24/95

PO No. :

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	MATRIX			SAMPLED BY		SAMPLED DATE RECEIV		
GW-50S (FILIT)		Aqueous			T.EBNER/ B.MOGILLICUDDY		5	05/03/95	
PARAMETER	RESULT	UNTIS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sulfide, Dissolved	<1	mg/L	1.0		1 376.1	05/04/95	NH		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)



Lab Number: WL-0668-6 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPL	SAMPLED BY		AIR	RECEIVED	
GW-76S (FILIT)	Aqueous			T.EBN B.MCG	ER/	05/03/9	05/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2	
Barium, Dissolved	0.025	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1	
Calcium, Dissolved	20	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN		
Iron, Dissolved	0.036	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1	
Lead, Dissolved	· <0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2	
Magnesium, Dissolved	1.7	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1	
Manganese, Dissolved	0.26	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1	
Potassium, Dissolved	0.83	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb (dw) /kew LE11ICW1

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



Lab Number: WL-0668-6

Report Date: 05/24/95

PO No.

CLIENT: DON CAMERON

OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY			SAMPLED D	ATE	E RECEIVED		
GW-76S (FILIT)	•	Aqueous			ER/	05/03/95		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Silicon, Dissolved Sodium, Dissolved	1 4 36		5.0 1.0		200.7/6010 200.7/6010			1 2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) Sample Preparation on 05/13/95 by VM using 3010
- (2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

LJO/ejnjbb (dw) /kew LB13ICW2



Lab Number: WL-0668-7

Report Date: 05/24/95

PO No.

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CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY		ED BY	SAMPLED D	ATE	RECEIVED	
GW-77S (FILIT)		Aqueous			ER/	05/03/9	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.015	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	27	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	0.038	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	0.023	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.29	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	3.7	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	0.19	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.9	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew IE11ICW1

CC: STEVE MORROW-OLIN, TN RICK SACKS-SMITH/ BCM ENGINEERS ONE PLYMOUTH MEETING

Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



Lab Number: WL-0668-7

Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				RECEIVED	
GW-77S (FILIT)		Aquecus		05/03 DDY	/95	05/03/95	
PARAMETER	. RESULT	UNITS D	F *PQL METHO	D ANALYZE	D BY	NOTES	
Silicon, Dissolved Sodium, Dissolved	4.5 26	mg/L 1.	-	/6010 05/16/9 /6010 05/15/9			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE13ICW2 CC: STEVE MORROW-OLIN, TN RICK SACKS-SMITH/ BCM ENGINEERS ONE PLYMOUTH MEETING

⁽¹⁾ Sample Preparation on 05/13/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/11/95 by VM using 3010



Lab Number: WL-0668-7 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	OTRIX		SAMPLED	BY	SAMPLED D	RECEIVED	
GW-77S (FILIT)	Aqueous T.EBNER/ B.MOGILLIOUDDY			05/03/9	5	05/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	45.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	47	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	0.71	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	0.32	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	5.0	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	0.22	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids-Filt Residue, Dissolved	210.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	35.	mg/L	1.0	1	300.0	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

⁽¹⁾ Sample Preparation on 05/04/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/16/95 by BAC

⁽³⁾ Sample Preparation on 05/05/95 by JF



Lab Number: WL-0668-7

Report Date: 05/24/95

PO No.

: ▶

CLIENT: DON CAMERON CLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M2	MATRIX SAMPLED BY			SAMPLED DATE RECRIVE		
GW-77S (FILIT)	Ac	quecus		T.EBNER/ B.MOGILLICUDDY	05/03/95	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL METHOD	ANALYZED B	Y NOTES	
Sulfide, Dissolved	· <1	mg/L	1.0	1 376.1	05/04/95 N	H	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

CC: STEVE MORROW-OLIN, TN RICK SACKS-SMITH/ BOM ENGINEERS ONE PLYMOUTH MEETING

TEL: 207-874-2400



Lab Number: WL-0668-8

Report Date: 05/24/95

PO No.

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CLIENT: DON CAMERON

OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX			ED BY	SAMPLED D	RECEIVED	
GW-77SD (FILT)	Aqueous		T.RENER/ B.MCGILLICUDDY		05/03/95		05/03/95	
PARAMETER	RESULT	UNITS	DF	+PQL	METHOD	ANALYZED	ВУ	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.015	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	28	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	0.032	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	0.025	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.056	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	4.2	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	0.20	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.7	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE11ICWL

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



Lab Number: WL-0668-8

Report Date: 05/24/95

PO No.

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CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	RECEIVED		
GW-77SD (FILT)		Aqueous			T.EBNER/ B.MCGILLICUDDY		15	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Silicon, Dissolved Sodium, Dissolved	4.3 . 27	mg/L mg/L	1.0		200.7/6010 200.7/6010				

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE13ICW2

⁽¹⁾ Sample Preparation on 05/13/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/11/95 by VM using 3010



Lab Number: WL-0668-8

Report Date: 05/24/95

PO No.

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OLIN CHEMICALS

CLIENT: DON CAMERON

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED	BY	SAMPLED D	RECEIVED	
GW-77SD (FILIT)	Aqueous T.EBNER/ B.MOGILLICUD				05/03/9	5	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCCC3	45.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	47	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	0.71	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	0.28	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	4.9	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids-Filt Residue, Dissolved	210.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	36.	mg/L	1.0	1	300.0	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

CC: STEVE MORROW-OLIN, TN RICK SACKS-SMITH/ BOM ENGINEERS ONE PLYMOUTH MEETING

Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 05/04/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/16/95 by BAC

⁽³⁾ Sample Preparation on 05/05/95 by JF



Lab Number : WL-0668-8

Report Date: 05/24/95

PO No.

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED D	RECEIVED		
GW-77SD (FILT)	Aq	• • • • • • • • • • • • • • • • • • • •			T.EENER/ B.MCGILLICUDDY		5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	<1	mg/L	1.0		376.1	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)



Lab Number: WL-0668-9

Report Date: 05/24/95

PO No.

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CLIENT: DON CAMERON

OLIN CHEMICALS 51 KAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	•	MATRIX SAMPLED BY				SAMPLED D	ATE	RECEIVED
GM-42S (FILT)		Aqueous			ER/	05/03/9	5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.47	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.029	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	8.1	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	4.2	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	2.1	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	0.38	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.3	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE11ICW1

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



Lab Number: WL-0668-9

Report Date: 05/24/95

PO No.

: ▶

CLIENT: DON CAMERON OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	ATE	E RECRIVED	
GW-42S (FILIT)		Aqueous		T.EBNER/ B.MCGILLICUDDY		05/03/95		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Silicon, Dissolved Sodium, Dissolved	5.8 18	mg/L mg/L	2.0 1.0		200.7/6010 200.7/6010			1 2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE13ICW2

⁽¹⁾ Sample Preparation on 05/13/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/11/95 by VM using 3010



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-9 Report Date: 05/24/95

PO No. : ▶

OLIN CHEMICALS 51 EAMES STREET

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	MATRIX SAMPLED BY				SAMPLED D	ATE	KECRIAED
GW-42S (FILT)	Aqueous T.EBNER/ B.MCGILLICUDDY			05/03/9	5	05/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCC3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	19.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	45	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	3.9	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	7.1	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	3 65.4	05/17/95	BC	2
Solids-Filt Residue, Dissolved	140.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	8.6	mg/L	1.0	1	300.0	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

⁽¹⁾ Sample Preparation on 05/04/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/16/95 by BAC

⁽³⁾ Sample Preparation on 05/05/95 by JF



Lab Number: WL-0668-9

Report Date: 05/24/95

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CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED DATE RECRIVED			
GW-42S (FILT)	Aq	ueous		T.EBNE B.MCGI	TTTOTDDA S\	05/03/9	5	05/03/95
PARAMETER	RESULT	UNITS	DF	+bÖr	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	3.	mg/L	1.0		376.1	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)



Lab Number : WL-0668-10 Report Date: 05/24/95

PO No. : ₽CAS

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY			SD BY	SAMPLED DATE RECEIVED		
SW-16 (FILT)	Aquecus				T.EENER/ B.MOGILLICUDDY		5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	CHYLIAMA	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.016	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	250	mg/L	5.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.048	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	5.4	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	0.25	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	. 2.6	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE11ICW1

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



Lab Number : WL-0668-10

Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	ATE	RECEIVED	
SW-16 (FILT)		- · · ·		T.EBN B.MOG	ER/	05/03/95		05/03/95	
PARAMETER	result	UNTTS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Silicon, Dissolved Sodium, Dissolved	3.7 . 66	mg/L mg/L	1.0		200.7/6010 200.7/6010	•		_	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE13ICW2

⁽¹⁾ Sample Preparation on 05/13/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/11/95 by VM using 3010



Lab Number : WL-0668-10

Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

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SAMPLE DESCRIPTION	MP	MATRIX SAMPLED BY			SAMPLED DATE RECEIVED			
SW-16 (FILT)	Aqueous			T.EBNER/ B.MCGILLICUDDY		05/03/95		05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	22.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	20.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	69	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	6.7	mg/L	20	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	58	mg/L	1.0	1	350.2	05/05/95	NH	1
Organic Carbon, Dissolved (DOC)	8.8	mg/L	1.0	1.0	415,1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/12/95	BC	2
Solids-Filt Residue, Dissolved	1200.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	870.	mg/L	1.0	10.	300.0	05/05/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

⁽¹⁾ Sample Preparation on 05/05/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/11/95 by NEN

⁽³⁾ Sample Preparation on 05/05/95 by JF



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-10

Report Date: 05/24/95

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OLIN CHEMICALS

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REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
SW-16 (FILT)	Aqueous			T.EBNEI B.MCGII	TTTCOMDDA S\	05/03/95		05/03/95
PARAMETER	result	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	3.	mg/L	1.0		376.1	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)



Lab Number : WL-0668-11 Report Date: 05/24/95

: ▶

PO No.

CLIENT: DON CAMERON

OLIN CHEMICALS 51 KAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED DATE RECEIVED		
SW-17 (FILIT)	Aqueous				T.EBNER/ B.MOGILLICODDY		5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZRO	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.013	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	32	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.091	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	3.9	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	0.089	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.8	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew IE11ICW1

CC: STEVE MORROW-OLIN, TN RICK SACKS-SMITH/ BOM ENGINEERS

ONE PLYMOUTH MEETING

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



Lab Number : WL-0668-11

Report Date: 05/24/95

PO No.

: ▶

CLIENT: DON CAMERON OLIN CHRMICALS 51 KAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	PLED DATE RECEIVED		
SW-17 (FILT)					T.EENER/ B.MOGILLICUDDY		05/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Silicon, Dissolved Sodium, Dissolved	3.0 82	mg/L mg/L	1.0		200.7/6010 200.7/6010	05/16/95 05/15/95		-	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) Sample Preparation on 05/13/95 by VM using 3010
- (2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

LJO/ejnjbb(dw)/kew LE13ICW2

CC: STEVE MORROW-OLIN, TN RICK SACKS-SMITH/ BOM ENGINEERS

ONE PLYMOUTH MEETING



Lab Number : WL-0668-11

Report Date: 05/24/95

PO No. : ▶ 🌴

CLIENT: DON CAMERON

OLIN CHEMICALS 51 KAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPLED	BY	SAMPLED D	RECEIVED	
SW-17 (FILT)	Aqueous			T.EBNER/ B.MOGILLICUDDY		05/03/95		05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3 Browide, Dissolved	67. <1	mg/L mg/L	1.0		APHA 406C	05/05/95 05/04/95	CM NH	
Carbonate, Dissolved as CaCO3 Chemical Oxygen Demand, Dissolved	<20 <15	mg/L mg/L	1.0	20	APHA 406C 410.4	-• • -	CM	
Chloride, Dissolved	100	mg/L	1.0	1	325.1 353.2	05/09/95	NH	
Nitrate as N, Dissolved Nitrite as N, Dissolved	<0.050	mg/L mg/L	1.0	0.050	353.2	05/10/95 05/04/95	BC CM	
Nitrogen-Ammonia as N, Dissolved Organic Carbon, Dissolved (DOC)	25 6.6	mg/L mg/L	1.0	1.0	350.2 415.1	05/05/95 05/06/95	NH BC	1
Phosphate Ortho as P, Dissolved Phosphorus, Dissolved as P	<0.02 <0.10	mg/L mg/L	1.0 1.0	0.10	365.2 365.4	05/04/95 05/12/95	NH BC	2
Solids-Filt Residue, Dissolved Sulfate, Dissolved	4 50. 190.	mg/L mg/L	1.0 1.0		160.1 300.0	05/08/95 05/05/95	JF NH	3

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

⁽¹⁾ Sample Preparation on 05/05/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/11/95 by NEN

⁽³⁾ Sample Preparation on 05/05/95 by JF



CLIENT: DON CAMERON

OLIN CHEMICALS

51 KAMES STREET WILMINGTON, MA 01887

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-11 Report Date: 05/24/95

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PO No.

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
SW-17 (FILT)	.Ac	dreora		T.EENE B.MCGI	TTIONDDA S\	05/03/9	5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	<1	mg/L	1.0		1 376.1	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejneng/jbb(dw)



Lab Number : WL-0668-14 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED DATE RECEIVED		
SW-15 (FILT)	Aqueous		T.EBNER/ B.MCGILLICUDDY		05/03/95		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.016	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	50	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.081	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	4.2	mg/L	1.0	0.050	200.7/6010	05/18/95	KW	1
Manganese, Dissolved	0.24	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.8	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew IE11ICW1

CC: STEVE MORROW-OLIN, IN RICK SACKS-SMITH/ BOM ENGINEERS

ONE PLYMOUTH MEETING

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



Lab Number : WL-0668-14 Report Date: 05/24/95

PO No. : >

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED DATE RECRIVED			
SW-15 (FILT)		Aqueous			T.EBNER/ B.MCGILLICUDDY		5	05/03/95	
PARAMETER	RESOLT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Silicon, Dissolved Sodium, Dissolved	3.8 120	mg/L mg/L	1.0		200.7/6010 200.7/6010	05/16/95 05/17/95		_	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LNO/ejnjbb(dw)/kew LE13ICW2

⁽¹⁾ Sample Preparation on 05/13/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/11/95 by VM using 3010



Lab Number : WL-0668-14

Report Date: 05/24/95 PO No.

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CLIENT: DON CAMERON OLIN CHEMICALS 51 KAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				BY	SAMPLED DATE RECEIVED		
SW-15 (FILT)	•			T.EBNER B.MOGIL	•	05/03/9	5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCCC3	49.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	15.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	120	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	2.8	mg/L	10	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	28	mg/L	1.0	0.5	350.2	05/05/95	NH	1
Organic Carbon, Dissolved (DOC)	6.0	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365. 4	05/12/95	BC	2
Solids-Filt Residue, Dissolved	550.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	270.	mg/L	1.0	3.	300.0	05/05/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

⁽¹⁾ Sample Preparation on 05/05/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/11/95 by NEN

⁽³⁾ Sample Preparation on 05/05/95 by JF



CLIENT: DON CAMERON

OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887 Lab Number : WL-0668-14 Report Date: 05/24/95

PO No. : >

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	MATRIX SAMPLED BY			SAMPLED DATE RECEIVED			
SW-15 (FILT)	Ac	Aqueous		T.EBNER/ B.MCGILLICUDDY		05/03/95		05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	2.	mg/L	1.0	:	1 376.1	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)



Lab Number : WL-0668-15

Report Date: 05/24/95

PO No. : ▶ 👫

CLIENT: DON CAMERON

OLIN CHRMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	SAMPLED D	RECEIVED	
SW-11 (FILT)	Aqueous			T.ERN B.MCG	SR/ ILLICUDDY	05/03/95		05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.013	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	15	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	· <0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.52	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	2.7	mg/L	1.0	0.050	200.7/6010	05/18/95	KW	1
Manganese, Dissolved	0.098	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	2.0	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE11ICW1

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF LABORATCRY ANALYSIS

Lab Number : WL-0668-15

Report Date: 05/24/95

PO No.

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REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY					ATE	TE RECEIVED		
SW-11 (FILT)	•	Aqueous			ER/	05/03/95		05/03/95		
PARAMETER	RESU	ir units	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Silicon, Dissolved Sodium, Dissolved	0.60 60	mg/L	1.0 1.0		200.7/6010 200.7/6010			_		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE13ICW2

⁽¹⁾ Sample Preparation on 05/13/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/11/95 by VM using 3010



Lab Number : WL-0668-15

CLIENT: DON CAMERON

OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887 Report Date: 05/24/95 PO No. : ▶

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	MATRIX SAMPLED BY			вч	SAMPLED D	SAMPLED DATE RECEIVED			
SW-11 (FILT)	Aqueous			T.EBNER B.MOGIL	•	05/03/95		05/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Bicarbonate, Dissolved as HCO3	33.	mg/L	1.0	20	APHA 406C	05/05/95	CM			
Bramide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH			
Carbonate, Dissolved as CaCC3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM			
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/04/95	LT			
Chloride, Dissolved	82	mg/L	1.0	1	325.1	05/09/95	NH			
Nitrate as N, Dissolved	0.53	mg/L	1.0	0.050	353.2	05/10/95	BC			
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM			
Nitrogen-Ammonia as N, Dissolved	7.0	mg/L	1.0	0.05	350.2	05/04/95	NH	1		
Organic Carbon, Dissolved (DOC)	7.2	mg/L	1.0	1.0	415.1	05/06/95	BC			
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH			
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365. 4	05/12/95	BC	2		
Solids-Filt Residue, Dissolved	260.	mg/L	1.0	10	160.1	05/08/95	JF	3		
Sulfate, Dissolved	55.	mg/L	1.0	1	300.0	05/04/95	NH			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

⁽¹⁾ Sample Preparation on 05/04/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/11/95 by NEN

⁽³⁾ Sample Preparation on 05/05/95 by JF



Lab Number : WL-0668-15

Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPLEI	BY	SAMPLED D	ATE :	RECRIVED
SW-11 (FILT)	Aqueous			T.EBNEF B.MOGII	TICIDDA A	05/03/95		05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	WEITHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)



Lab Number : WL-0668-16

Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	ATE	RECEIVED
SW-14 (FILT)		Aquecus		T.EBN B.MCG	ER/	05/03/9	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	ву	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.011	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	20	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.46	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	2.8	mg/L	1.0	0.050	200.7/6010	05/18/95	KW	1
Manganese, Dissolved	0.059	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.6	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE11ICW1

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



Lab Number : WL-0668-16

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Report Date: 05/24/95 PO No.

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPI			ED BY	SAMPLED D	ATE	RECEIVED	
SW-14 (FILT)		Aqueous			T.EBNER/ B.MOGILLICUDDY		05/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Silicon, Dissolved Sodium, Dissolved	0.17 70	mg/L mg/L	1.0 1.0		200.7/6010 200.7/6010			_	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb (dw) /kew LE13ICW2

⁽¹⁾ Sample Preparation on 05/13/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/11/95 by VM using 3010



Lab Number : WL-0668-16 Report Date: 05/24/95

PO No. : 🗎 🍜

CLIENT: DON CAMERON
OLIN CHEMICALS

51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY			ВУ	SAMPLED DATE RECEIVED			
SW-14 (FILT)	•			T.EBNER B.MOGIL	•	05/03/95		05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	44.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCC3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	25.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	88	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	0.77	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	1.6	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	7.0	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/12/95	BC	2
Solids-Filt Residue, Dissolved	270.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	45.	mg/L	1.0	1	300.0	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

⁽¹⁾ Sample Preparation on 05/04/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/11/95 by NEN

⁽³⁾ Sample Preparation on 05/05/95 by JF



Lab Number : WL-0668-16

Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

· REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	ма	MATRIX SAMPLED BY				SAMPLED D	SAMPLED DATE R		
SW-14 (FILT)	Aq	Aqueous			R/ LLICUDDY	05/03/95		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sulfide, Dissolved	<1	mg/L	1.0		1 376.1	05/04/95	NH		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)



Lab Number : WL-0668-17

Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX			ED BY	SAMPLED D	RECEIVED	
SW-12 (FILT)		Aqueous			T.EBNER/ B.MCGILLICUDDY		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.015	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	_. 13	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.80	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	2.1	mg/L	1.0	0.050	200.7/6010	05/18/95	KW	1
Manganese, Dissolved	0.062	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.7	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE11ICW1

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-17 Report Date: 05/24/95

PO No. : ▶

OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	•	MATRIX SAMPLED BY				SAMPLED D	ATE	ATE RECEIVED			
SW-12 (FILT)	•	· Aqueous			ER/	05/03/95		05/03/95			
PARAMETER	RRSULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES			
Silicon, Dissolved Sodium, Dissolved	0.67 37	mg/L mg/L	1.0		200.7/6010 200.7/6010		KW KW	1 2			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(đw)/kew LE13ICW2

CC: STEVE MORROW-OLIN, IN RICK SACKS-SMITH/ BCM ENGINEERS ONE PLYMOUTH MEETING

An Equal Opportunity Employer

⁽¹⁾ Sample Preparation on 05/13/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/11/95 by VM using 3010



Lab Number : WL-0668-17 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	MATRIX SAMPLED BY			SAMPLED DATE RECEIVED			
SW-12 (FILT)	Aqueous			T.EENER B.MCGIL		05/03/9	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCC3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	37.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	69	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved .	<0.050	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	0.09	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	14.	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365. 4	05/12/95	BC	2
Solids-Filt Residue, Dissolved	190.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	11.	mg/L	1.0	1	300.0	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

⁽¹⁾ Sample Preparation on 05/04/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/11/95 by NEN

⁽³⁾ Sample Preparation on 05/05/95 by JF



Lab Number : WL-0668-17

Report Date: 05/24/95

PO No.

CLIENT: DON CAMERON

OLIN CHEMICALS 51 KAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPLE	D BY	SAMPLED D	RECRIVED	
SW-12 (FILT)	Aqueous			T.EENE B.MCGI	R\	05/03/95		05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	2.	mg/L	1.0		1 376.1	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)



Lab Number: WL-0668-18

Report Date: 05/24/95

PO No. : 1

OLIN CHEMICALS 51 EAMES STREET

CLIENT: DON CAMERON

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	ATE	RECEIVED
SW-14D (FILT)		Aqueous	3	T.EBN B.MCG	ER/	05/ 03/9	5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.008	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	17	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN.	
Iron, Dissolved	0.42	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	· <0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	2.5	mg/L	1.0	0.050	200.7/6010	05/18/95	KW	1
Manganese, Dissolved	0.048	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.7	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE11ICW1

CC: STEVE MORROW-OLIN, IN RICK SACKS-SMITH/ BCM ENGINEERS

ONE PLYMOUTH MEETING

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



Lab Number: WL-0668-18

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887 Report Date: 05/24/95

PO No. : ▶

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	SAMPLED BY SAMPLED DATE RECEIVE T.EBNER/ 05/03/95 05/03/9 B.MCGILLICUDDY				
SW-14D (FILIT)		Aqueous	3	-	•	05/03/9	05/03/95		
PARAMETER	· RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Silicon, Dissolved Sodium, Dissolved	0.29 61	mg/L mg/L	1.0		200.7/6010 200.7/6010				

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE13ICW2

⁽¹⁾ Sample Preparation on 05/13/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/11/95 by VM using 3010



Lab Number : WL-0668-18 Report Date: 05/24/95

PO No. : ▶

CILIENT: DON CAMERON
OLIN CHEMICALS

51 EAMRS STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED	ву	SAMPLED D	ATE	RECRIVED
SW-14D (FILT)	Ac	ueous		T.EENER B.MCGII.		05/03/9	5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	43.	mg/L	1.0	20	APHA 406C	05/05/95	ŒΜ	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	21.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	88	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	0.72	mg/L	1.0	0.050	353,2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	1.7	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	7.3	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/12/95	BC	2
Solids-Filt Residue, Dissolved	280.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	46.	mg/L	1.0	1	300.0	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

⁽¹⁾ Sample Preparation on 05/04/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/11/95 by NEN

⁽³⁾ Sample Preparation on 05/05/95 by JF



Lab Number : WL-0668-18

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET

WILMINGTON, MA 01887

Report Date: 05/24/95 : ▶

PO No.

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED		
SW-14D (FILT)	Ac	queous		T.EBNE B.MCGI	05/03/9	05/03/95 05/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	. <1	mg/L	1.0		1 376.1	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

CC: STEVE MORROW-OLIN, IN RICK SACKS-SMITH/ BOM ENGINEERS ONE PLYMOUTH MEETING

> P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098

An Equal Opportunity Employer



Lab Number: WL-0668-19 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	SAMPLED D	SAMPLEO DATE RECEIVED			
RINSE BLANK (FILIT)	Aqueous				T.EENER/ B.MCGILLICUDDY		05/03/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1		
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2		
Barium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1		
Calcium, Dissolved	<0.050	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1		
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1		
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3		
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN			
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1		
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2		
Magnesium, Dissolved	<0.050	mg/L	1.0	0.050	200.7/6010	05/18/95	KW	1		
Manganese, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1		
Potassium, Dissolved	<0.50	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1		

^{*} PQL (Practical Quantitation Level). represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE11ICW1

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



Lab Number: WL-0668-19

Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	ATE	ATE RECEIVED		
RINSE BLANK (FILT)		Aquecus		T.EBN B.MOG	ER/	05/03/95		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Silicon, Dissolved Sodium, Dissolved	<0.10 <0.10	mg/L mg/L	1.0		200.7/6010 200.7/6010	• •	KW KW	_	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE13ICW2

CC: STEVE MORROW-OLIN, IN RICK SACKS-SMITH/ BCM ENGINEERS

ONE PLYMOUTH MEETING

⁽¹⁾ Sample Preparation on 05/13/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/11/95 by VM using 3010



Lab Number : WL-0668-19

Report Date: 05/24/95

PO No. : 🕶 🚟

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION .	MATRIX		SAMPLED BY		SAMPLED DATE		RECEIVED	
RINSE BLANK (FILT)	Aqueous			T.EBNER/ B.MOGILL		05/03/9	5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCCC3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	<1	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	0.095	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	<0.05	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/12/95	BC	2
Solids-Filt Residue, Dissolved	<10	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	2.	mg/L	1.0	1	300.0	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

⁽¹⁾ Sample Preparation on 05/04/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/11/95 by NEN

⁽³⁾ Sample Preparation on 05/05/95 by JF



Lab Number : WL-0668-19

Keport Date: 05/24/95

PO No. : ▶

OLIN CHEMICALS
51 EAMES STREET

CLIENT: DON CAMERON

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MF	TRIX		SAMPLED BY SAMPLED DATE				RECEIVED	
RINSE BLANK (FILIT)	Ac	ueous T.EENER/ B.MCGILLICUDDY			05/03/95 05/03/95				
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sulfide, Dissolved	4	mg/L	1.0	:	1 376.1	05/04/95	NH		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)



Lab Number : WL-0668-20

Report Date: 05/24/95

PO No.

: ▶

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPLI	2D BA	SAMPLED D	05/03/94 05/03/95 NALYZED BY NOTES 5/05/95 KW 1		
GW-79S (UNFILT)	•	Aqueous	3	T.EBN B.MCG	ER/	05/03/9	4	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	1	
Chromium, Total	0.020	mg/L	1.0	0.015	200.7/6010	05/11/95	KW	2	
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb (dw) /kew LE03WA

⁽¹⁾ Sample Preparation on 05/03/95 by GFB using 7195

⁽²⁾ Sample Preparation on 05/10/95 by VM using 3010



Lab Number : WL-0668-21

Report Date: 05/24/95

PO No. : >

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY					ATE	RECEIVED
GW-78S (UNFILIT)		Aqueous	3	T.EBN B.MCG	ER/	,,		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent Chromium, Total Chromium, Trivalent	0.60 0.89 0.29	mg/L mg/L mg/L	1.0 1.0 1.0		6010 200.7/6010 Calculation	05/05/95 05/11/95 05/21/95	KW	1 2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb (dw) /kew LE03WA

⁽¹⁾ Sample Preparation on 05/03/95 by GFB using 7195

⁽²⁾ Sample Preparation on 05/10/95 by VM using 3010



Lab Number : WL-0668-22

Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 KAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	1	MATRIX SAMPLED BY				SAMPLED D	ATE	RECEIVED
GW-78S (UNIFILIT/MS)		Aqueous T.ERNER/ B.MCGILL				05/03/9	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent Chromium, Total Chromium, Trivalent	2.46 0.452 Not Appl.	mg/L	1.0 1.0 1.0		6010 200.7/6010 Calculation		KW	1 2,3 4

^{*} POL (Practical Quantitation Level), represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) Sample Preparation on 05/03/95 by GFB using 7195
- (2) Sample Preparation on 05/12/95 by VM using 3010
- (3) A duplicate was analyzed for total chromium rather than the client requested matrix spike.
- (4) This is a calculation and is not applicable to a matrix spike.

05/24/95

LJO/ejnejn LE03WB



Lab Number: WL-0668-23 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	i	MATRIX		SAMPLI	SAMPLED BY SAMPLED DATE R				
GW-78S (UNFILIT/DUP)	•	Aqueous		T.EBNER/ B.MCGILLICUDDY		05/03/9	05/03/94		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Hexavalent	2.45	mg/L	1.0	0.015	6010	05/05/95	KW	1,2	
Chromium, Total	1.60	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	3,4	
Chromium, Trivalent	Not Appl.	mg/L	1.0	0.015	Calculation	05/21/95	DN	5	

- * PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
- (1) Sample Preparation on 05/03/95 by GFB using 7195
- (2) A matrix spike was analyzed for hexavalent chromium rather than the client requested duplicate.
- (3) Sample Preparation on 05/12/95 by VM using 3010
- (4) A matrix spike was analyzed for total chromium rather than the client requested duplicate.
- (5) This is a calculation and is not applicable to a matrix spike.

05/24/95

LJO/ejnejn LE03WA



Lab Number : WL-0668-24

Report Date: 05/24/95

PO No.

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CLIENT: DON CAMERON

OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	RECEIVED		
GW-50S (UNFILT)		Aqueous		T.EBNER/ B.MCGILLICUDDY		05/03/94		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	ву	NOTES	
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	1	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	2	
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw) LE03WA

⁽¹⁾ Sample Preparation on 05/03/95 by GFB using 7195

⁽²⁾ Sample Preparation on 05/12/95 by VM using 3010



Lab Numb

Lab Number : WL-0668-25 Report Date: 05/24/95

PO No.

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CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	2D BY	SAMPLED D	RECEIVED		
GW-76S (UNIFILIT)		Aqueous			SR/	05/03/94		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Hexavalent Chromium, Total Chromium, Trivalent	<0.015 <0.015 <0.015	mg/L mg/L mg/L	1.0 1.0 1.0		6010 200.7/6010 Calculation	05/05/95 05/15/95 05/21/95	KW	1 2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LNO/ejnjbb (dw)

⁽¹⁾ Sample Preparation on 05/03/95 by GFB using 7195

⁽²⁾ Sample Preparation on 05/12/95 by VM using 3010



Lab Number: WL-0668-26

Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMRS STREET WILMINGTON, MA 01887

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SAMPLE DESCRIPTION		MATRIX		SAMPL	BO BY	SAMPLED D	RECEIVED	
GW-77S (UNFILIT)	•			T.EBNER/ B.MCGILLICUDDY		4	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent Chromium, Total	0.033 0.039	mg/L mg/L	1.0	0.015	6010 200.7/6010	05/05/95 05/15/95		1 2
Chromium, Trivalent	<0.015	mg/L	1.0		Calculation			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw) LE03WA

⁽¹⁾ Sample Preparation on 05/03/95 by GFB using 7195

⁽²⁾ Sample Preparation on 05/12/95 by VM using 3010



Lab Number: WL-0668-27 Report Date: 05/24/95

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PO No.

CLIENT: DON CAMERON

OLIN CHEMICALS 51 ENMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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	MATRIX		SAMPLE	ED BY	SAMPLED D	RECEIVED		
	Aqueous			T.EBNER/ B.MCGILLICUDDY		4	05/03/95	
RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
0.050	mg/L	1.0					1	
0.037 <0.015	•	1.0		•	. ,		2	
	RESULT 0.050	0.050 mg/L 0.037 mg/L	Aqueous RESULT UNITS DF 0.050 mg/L 1.0 0.037 mg/L 1.0	Aqueous T.EBNUB.MCG: RESULT UNITS DF *PQL 0.050 mg/L 1.0 0.015 0.037 mg/L 1.0 0.015	Aqueous T.EBNER/ B.MCGILLICUDDY RESULT UNITS DF *PQL METHOD 0.050 mg/L 1.0 0.015 6010 0.037 mg/L 1.0 0.015 200.7/6010	Aqueous T.EBNER/ 05/03/9 B.MOGILLICUDDY RESULT UNITS DF *PQL METHOD ANALYZED 0.050 mg/L 1.0 0.015 6010 05/05/95 0.037 mg/L 1.0 0.015 200.7/6010 05/15/95	Aqueous T.EENER/ 05/03/94 B.MCGILLICUDDY RESULT UNITS DF *PQL METHOD ANALYZED BY 0.050 mg/L 1.0 0.015 6010 05/05/95 KW 0.037 mg/L 1.0 0.015 200.7/6010 05/15/95 KW	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb (dw) LE03WA

⁽¹⁾ Sample Preparation on 05/03/95 by GFB using 7195

⁽²⁾ Sample Preparation on 05/12/95 by VM using 3010



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-0668-28 Report Date: 05/24/95

PO No. : •

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION					STO BY	SAMPLED DATE RECEIVE			
GW-42S (UNFILT)					T.EBNER/ B.MOGILLICUDDY		4	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	1	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	2	
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw) LE03WB

⁽¹⁾ Sample Preparation on 05/03/95 by GFB using 7195

⁽²⁾ Sample Preparation on 05/12/95 by VM using 3010



Lab Number: WL-0668-29

Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED DATE RECEIVED		
SW-16 (UNFILT)		Aqueous			ER/	05/03/9	5	05/03/95
PARAMETER	RESULT	UNITS	DF	*b&r	WEIHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.26	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Total	0.020	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Total	200	mg/L	5.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Total	0.13	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Total	5.2	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Total	0.25	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Total	2.2	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1
Silicon, Total	4.1	mg/L	1.0	0.10	200.7/6010	05/17/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew LE12ICW1

⁽¹⁾ Sample Preparation on 05/12/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-0668-29 Report Date: 05/24/95

PO No. : 📭

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX			SAMPLED BY		SAMPLED DATE		
SW-16 (UNFILT)		Aqueous			T.EBNER/ B.MOGILLICODDY		95	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sodium, Total	70	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

LJO/ejnjbb(dw)/kew LB12ICW1



Lab Number : WL-0668-29

Report Date: 05/24/95

PO No. : >

CLIENT: DON CAMERON

OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MP	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
SW-16 (UNFILIT)	Ac	Aqueous T.E B.M			FICODDA \	05/03/95		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate as HCO3	22.	mg/L	1.0	20	APHA 406C	05/05/95	CM		
Bromide	1	mg/L	1.0	1	300.0	05/04/95	NH		
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM		
Chemical Oxygen Demand	26.	mg/L	1.0	15	410.4	05/04/95	LT		
Chloride .	69	mg/L	1.0	1	325.1	05/09/95	NH		
Nitrate as N	6.6	mg/L	20	0.050	353.2	05/10/95	BC		
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM		
Nitrogen-Ammonia as N	56	mg/L	1.0	. 1	350.2	05/05/95	NH	1	
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH		
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	05/17/95	BC	2	
Solids - Filterable Residue (TDS)	1300.	mg/L	1.0	10	160.1	05/10/95	JF	3	
Sulfate	870.	mg/L	1.0	20.	300.0	05/05/95	NH		
Sulfide	2.	mg/L	1.0	1	376.1	05/04/95	NH		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 05/05/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/16/95 by BAC

⁽³⁾ Sample Preparation on 05/09/95 by JF



Lab Number : WL-0668-29

Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	TRIX		SAMPLED BY	SAMPLED DATE	RECEIVED	
SW-16 (UNFILT)	Aqueous		T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL METHOD	ANALYZED BY	NOTES	
Total Organic Carbon (TOC)	9.1	mg/L	1.0	1.0 415.1	05/06/95 BC		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb (dw)



Lab Number : WL-0668-30 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX			ED BY	SAMPLED D	RECEIVED	
SW-17 (UNFILT)	•	Aquecus			ER/	05/03/9	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.83	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Total	0.016	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Total	36	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Total	0.34	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Total	3.6	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Total	0.097	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Total	1.8	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1
Silicon, Total	3.0	mg/L	1.0	0.10	200.7/6010	05/17/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values,

05/24/95

LJO/ejnjbb (dw) /kew IE12ICW1

⁽¹⁾ Sample Preparation on 05/12/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



Lab Number : WL-0668-30

Report Date: 05/24/95 PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX			SAMPLED BY		SAMPLED DATE REC		
SW-17 (UNFILIT)		Aqueous		T.EBNER/ B.MCGILLICUDDY		05/03/95		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sodium, Total	88	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

LJO/ejnjbb(dw)/kew LE12ICW1



Lab Number: WL-0668-30 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHRMICALS 51 BAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPLED	BY	SAMPLED D	RECEIVED	
SW-17 (UNFILT)	Aqueous			T.EBNER B.MCGIL	=	05/03/9	5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	67.	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Bromide	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Chemical Oxygen Demand	24.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride	110	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N	2.1	mg/L	2.0	0.050	353.2	05/10/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N	25	mg/L	1.0	0.5	350.2	05/05/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Total as P	0.12	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids - Filterable Residue (TDS)	440.	mg/L	1.0	10	160.1	05/09/95	JF	3
Sulfate	200.	mg/L	1.0	5.	300.0	05/08/95	NH	
Sulfide	2.	mg/L	1.0	1	376.1	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 05/05/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/16/95 by BAC

⁽³⁾ Sample Preparation on 05/08/95 by JF



Lab Number : WL-0668-30

Report Date: 05/24/95

PO No.

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CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	· M A	TRIX		SAMPLET	SAMPLED D	SAMPLED DATE		
SW-17 (UNFILT)	Ac	3		T.EENEF B.MCGII	TTCODDA s\	05/03/9	5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Total Organic Carbon (TOC)	7.0	mg/L	1.0	1.0	415.1	05/06/95	BC	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)



Lab Number : WL-0668-31 Report Date: 05/24/95

PO No. : >

CLIENT: DON CAMERON

OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	:	MATRIX SAMPLED BY					SAMPLED DATE RECRIVED			
SW-17 (UNFILT/MS)		Aqueous	1	T.EEN B.MCG	ER/	05/03/9	95	05/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Total	2.86	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1		
Arsenic, Total	0.033	mg/L	5.0	0.005	206.2/7060	05/11/95	KW	2		
Barium, Total	1.95	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1		
Calcium, Total	40.5	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1		
Chromium, Hexavalent	2.40	mg/L	1.0	0.015	6010	05/05/95	KW	3		
Chromium, Total	0.211	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1		
Chromium, Trivalent	Not Appl.	mg/L	1.0	0.015	Calculation	05/21/95	DN	4		
Iron, Total	1.35	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1		
Lead, Total	0.015	mg/L	2.0	0.005	239.2/7421	05/10/95	KW	2		
Magnesium, Total	8.18	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1		
Manganese, Total	0.584	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1		
Potassium, Total	22.7	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb (dw) /kew LE12ICW1

⁽¹⁾ Sample Preparation on 05/12/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/09/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195

⁽⁴⁾ This is a calculation and is not applicable to a matrix spike.



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-31

Report Date: 05/24/95

PO No. : ▶

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAN				SAMPLED D	TATE	RECEIVED
SW-17 (UNFILIT/MS)		Aqueous	3	T.EBN B.MOG	ER/	05/03/9	15	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Total Sodium, Total	4.63 104	mg/L mg/L	1.0		200.7/6010 200.7/6010			_

^{*} POL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

LJO/ejnjbb (dw) /kew LE12ICW1



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-31
Report Date: 05/24/95

PO No. : >

WILMINGTON, MA 01887

OLIN CHEMICALS 51 EAMES STREET

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY			ВУ	SAMPLED DATE RECEIVED			
SW-17 (UNFILIT/MS)	Aqueous			T.EBNER B.MCGIL	•	05/03/9	05/03/95	
PARAMETER .	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	166.	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Bromide	10	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, as CO3	23.8	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Chemical Oxygen Demand	85.0	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride	150	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N	Not Appl.	mg/L	1.0	0.050	353.2	05/10/95	BC	1
Nitrite as N	0.523	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N	34	mg/L	1.0	0.5	350.2	05/05/95	NH	2
Phosphate, Ortho as P	0.49	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Total as P	0.974	mg/L	1.0	0.10	365. 4	05/17/95	BC	3
Solids - Filterable Residue (TDS)	Not Appl	.mg/L	1.0	10	160.1	05/09/95	JF	4,5

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)

⁽¹⁾ NA=This is a calculation and is not applicable to a matrix spike.

⁽²⁾ Sample Preparation on 05/05/95 by NH using 350.2

⁽³⁾ Sample Preparation on 05/16/95 by BAC

⁽⁴⁾ Sample Preparation on 05/08/95 by JF

⁽⁵⁾ NA-Matrix spike analysis is not applicable for this parameter.



Lab Number : WL-0668-31 Report Date: 05/24/95

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CLIENT: DON CAMERON

OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	TRIX		SAMPLE	D BY	SAMPLED DATE		RECEIVED	
SW-17 (UNFILT/MS) PARAMETER	Ac	Aqueous T.EBNER/ B.MOGILL				05/03/95 05/03/95 DDY			
	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sulfate	210.	mg/L	1.0	5	. 300.0	05/08/95	NH		
Sulfide	32.	mg/L	1.0	;	1 376.1	05/04/95	NH		
Total Organic Carbon (TOC)	47.4	mg/L	1.0	1.0	415.1	05/06/95	BC		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)



Lab Number : WL-0668-32 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHRMICALS 51 EAMRS STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	;	MATRIX SAMPLED BY				SAMPLED D	ATE	RECEIVED
SW-17 (UNFILIT/DOP)		Aqueous			T.EENER/ B.MCGILLICUDDY		05/03/95	
PARAMETER	RESOLT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.907	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2
Barium, Total	0.017	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Total	39.1	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent	2.53	mg/L	1.0	0.015	6010	05/05/95	KW	3,4
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Trivalent	Not Appl.	mg/L	1.0	0.015	Calculation	05/21/95	DN	5
Iron, Total	0.381	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2
Magnesium, Total	3.86	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Total	0.108	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew/pph LE12ICW1

⁽¹⁾ Sample Preparation on 05/12/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/09/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195

⁽⁴⁾ A matrix spike was analyzed for hexavalent chromium rather than the client requested duplicate.

⁽⁵⁾ This is a calculation and is not applicable to a matrix spike.



CLIENT: DON CAMERON

CLIN CHRMICALS 51 RAMES STREET WILMINGTON, MA 01887 Lab Number : WL-0668-32 Report Date: 05/24/95

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REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	RECRIVED				
SW-17 (UNFILIT/DUP)		Aqueous			T.EBNER/ B.MOGILLICUDDY		5	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Potassium, Total Silicon, Total Sodium, Total	1.68 3.32 96.1	mg/L mg/L mg/L	1.0 1.0 1.0	0.10	200.7/6010 200.7/6010 200.7/6010	05/15/95 05/17/95 05/15/95	KW	1 1 1	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

LJO/ejnjbb (dw) /kew/pph LE12ICW1



Lab Number : WL-0668-32

Report Date: 05/24/95

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CLIENT: DON CAMERON

OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY					SAMPLED DATE RECEIVED		
SW-17 (UNFILIT/DUP)	Aqueous			T.EENER/ B.MOGILLICUDDY		05/03/95		05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	68.3	mg/L	1.0	20	APHA 406C	05/08/95	СM	
Bromide	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, as CO3	<20.0	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Chemical Oxygen Demand	19.0	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride	110	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N	2.05	mg/L	2.0	0.050	353.2	05/10/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N	24	mg/L	1.0	0.5	350.2	05/05/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Total as P	0.114	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids - Filterable Residue (TDS)	460.	mg/L	1.0	10	160.1	05/09/95	JF	3
Sulfate	200.	mg/L	1.0	1	300.0	05/08/95	NH	
Sulfide	2.	mg/L	1.0	1	376.1	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 05/05/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/16/95 by BAC

⁽³⁾ Sample Preparation on 05/08/95 by JF



Lab Number : WL-0668-32

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CLIENT: DON CAMERON OLIN CHEMICALS 51 RAMES STREET

WILMINGTON, MA 01887

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SAMPLE DESCRIPTION	MA	TRIX		SAMPLED	ВУ	SAMPLED D	ATE	RECRIVED
SW-17 (UNFILIT/DUP)	Aq	•		T.EBNER/ B.MOGILLICUDDY		05/03/95		05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Total Organic Carbon (TOC)	7.20	mg/L	1.0	1.0	415.1	05/06/95	BC	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)



Lab Number : WL-0668-33 Report Date: 05/24/95

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CLIENT: DON CAMERON
OLIN CHEMICALS
51 BAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY					SAMPLED DATE RECEIVED		
SW-15 (UNFILT)		Aquéoùs			T.EBNER/ B.MOGILLICUDDY		05/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total	1.6	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1	
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2	
Barium, Total	· 0.019	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1	
Calcium, Total	56	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1	
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3	
Chromium, Total	0.023	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1	
Chromium, Trivalent	0.023	mg/L	1.0	0.015	Calculation	05/21/95	DN		
Iron, Total	0.54	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1	
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2	
Magnesium, Total	4.7	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1	
Manganese, Total	0.26	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1	
Potassium, Total	1.9	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1	
Silicon, Total	4.5	mg/L	1.0	0.10	200.7/6010	05/17/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LDO/ejnjbb(dw)/kew LB12ICW1 CC: STEVE MORROW-OLIN, IN RICK SACKS-SMITH/

> BOM ENGINEERS ONE PLYMOUTH MEETING

⁽¹⁾ Sample Preparation on 05/12/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/09/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



Lab Number : WL-0668-33

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CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	•	MATRIX			ED BY	SAMPLED D	ATE	E RECEIVED	
SW-15 (UNFILT)		Aqueous		T.EBNER/ B.MOGILLICUDDY		05/03/95		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sodium, Total	120	mg/L	2.0	0.10	200.7/6010	05/15/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

LJO/ejnjbb (dw) /kew LE12ICW1 CC: STEVE MORROW-OLIN, IN RICK SACKS-SMITH/ BCM ENGINEERS

ONE PLYMOUTH MEETING



Lab Number : WL-0668-33

Report Date: 05/24/95 PO No.

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OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED BY	SAMPLED D	DATE RECEIVED		
SW-15 (UNFILT)	Aqueous			T.EBNER/ B.MCGILLICUDDY	05/03/9	5	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL METHOD	ANALYZED	BY	NOTES	
Bicarbonate as HCC3	49.	mg/L	1.0	20 APHA 40	C 05/08/95	CM		
Bronide	<1	mg/L	1.0	1 300.0	05/04/95	NH		
Carbonate, as CO3	<20	mg/L	1.0	20 APHA 40	SC 05/08/95	CM		
Chemical Oxygen Demand	19.	mg/L	1.0	15 410.4	05/04/95	LT		
Chloride	120	mg/L	1.0	1 325.1	05/09/95	NH		
Nitrate as N	2.7	mg/L	20	0.050 353.2	05/10/95	BC		
Nitrite as N	<0.050	mg/L	1.0	0.050 353.2	05/04/95	CM		
Nitrogen-Ammonia as N	28	mg/L	1.0	0.5 350.2	05/05/95	NH	1	
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02 365.2	05/04/95	NH		
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10 365.4	05/17/95	BC	2	
Solids - Filterable Residue (TDS)	570.	mg/L	1.0	10 160.1	05/09/95	JF	3	
Sulfate	280.	mg/L	1.0	3. 300.0	05/08/95	NH		
Sulfide	2.	mg/L	1.0	1 376.1	05/04/95	NH		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 05/05/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/16/95 by BAC

⁽³⁾ Sample Preparation on 05/08/95 by JF



Lab Number: WL-0668-33

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SAMPLE DESCRIPTION	MA	MATRIX			SAMPLED BY		SAMPLED DATE RECEIVE	
SW-15 (UNFILT)	Ac	•		T.EBNER/ B.MCGILLICUDDY		05/03/95		05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Total Organic Carbon (TOC)	7.0	mg/L	1.0	1.0	415.1	05/06/95	вс	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)



Lab Number : WL-0668-34

Report Date: 05/24/95 : ▶

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CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED DATE RECEIVED		
SW-11 (UNFILT)		Aqueous			ER/	05/03/95		05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	ву	NOTES
Aluminum, Total	0.11	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2
Barium, Total	0.015	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Total	15	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Total	1.5	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2
Magnesium, Total	2.7	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Total	0.098	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Total	1.3	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1
Silicon, Total	0.70	mg/L	1.0	0.10	200.7/6010	05/17/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejrijbb (dw) /kew LE12ICWL

⁽¹⁾ Sample Preparation on 05/12/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/09/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



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OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

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SAMPLE DESCRIPTION		MATRIX			ED BY	SAMPLED D	RECEIVED	
SW-11 (UNFILT)	•	Aqueous		T.EBN B.MCG	ER/	05/03/9	5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Total	57	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

LJO/ejnjbb(dw)/kew LE12ICW1



Iab Number: WL-0668-34 Report Date: 05/24/95

PO No. : >

CLIENT: DON CAMERON
OLIN CHEMICALS

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REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	VIRIX		SAMPLED BY	SAMPLED DATE RECEIVED			
SW-11 (UNFILT)	Ac	Aqueous T.EB B.MO			05/03/9	5	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL METHOD	ANALYZED	BY	NOTES	
Bicarbonate as HCO3	32.	mg/L	1.0	20 APHA 406	C 05/08/95	CM		
Bromide	<1	mg/L	1.0	1 300.0	05/04/95	NH		
Carbonate, as CO3	<20	mg/L	1.0	20 APHA 406	C 05/08/95	CM		
Chemical Oxygen Demand	20.	mg/L	1.0	15 410.4	05/04/95	LT	•	
Chloride	82	mg/L	1.0	1 325.1	05/09/95	NH		
Nitrate as N	0.55	mg/L	1.0	0.050 353.2	05/10/95	BC		
Nitrite as N .	<0.050	mg/L	1.0	0.050 353.2	05/04/95	CM		
Nitrogen-Ammonia as N	6.8	mg/L	1.0	0.05 350.2	05/05/95	NH	1	
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02 365.2	05/04/95	NH		
Phosphorus, Total as P	0.12	mg/L	1.0	0.10 365.4	05/17/95	BC	2	
Solids - Filterable Residue (TDS)	250.	mg/L	1.0	10 160.1	05/09/95	JF	3	
Sulfate	55.	mg/L	1.0	1 300.0	05/04/95	NH		
Sulfide	<1	mg/L	1.0	1 376.1	05/04/95	NH		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 05/04/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/16/95 by BAC

⁽³⁾ Sample Preparation on 05/08/95 by JF



Lab Number : WL-0668-34

Report Date: 05/24/95

PO No.

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	MATRIX			SAMPLED BY		SAMPLED DATE RECEIVED		
SW-11 (UNFILT)	Ac	Aqueous T.EBNER/ B.MCGILLICUDDY			05/03/95 05/03/95				
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Total Organic Carbon (TOC)	6.9	mg/L	1.0	1.0	415.1	05/06/95	BC		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)



Lab Number : WL-0668-35 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON
CLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED B			ED BY	SAMPLED D	ATE	RECEIVED
SW-14 (UNFILT)		Aqueous			ER/	05/03/9	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2
Barium, Total	0.011	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Total	18	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	. 3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Total	0.61	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2
Magnesium, Total	2.7	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Total	0.049	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Total	1.3	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1
Silicon, Total	0.31	mg/L	1.0	0.10	200.7/6010	05/17/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb (dw) /kew LE12ICW1

⁽¹⁾ Sample Preparation on 05/12/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/09/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



CLIENT: DON CAMERON

CLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887 Lab Number : WL-0668-35 Report Date: 05/24/95

PO No. : ▶

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPL	SAMPLED BY		ATE	RECEIVED	
SW-14 (UNFILIT)	Aqueous			T.RENER/ B.MCGILLICUDDY		15	05/03/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sodium, Total	64	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

LJO/ejnjbb(dw)/kew LE12ICW1



Lab Number : WL-0668-35 Report Date: 05/24/95

PO No. : >

CLIENT: DON CAMERON

OLIN CHRMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED	BY	SAMPLED D	RECEIVED	
SW-14 (UNFILT) Aqueous				T.EBNER B.MOGIL	TICODDA \	05/03/9	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	44.	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Bromide	<1	mg/L	1.0	1	300.0	05/04/95	MH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	. 05/08/95	CM	رون سلاحیو فی فی فی
Chemical Oxygen Demand	22.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride	88	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N	0.82	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N	1.6	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids - Filterable Residue (TDS)	270.	mg/L	1.0	10	160.1	05/09/95	JF	3
Sulfate	46.	mg/L	1.0	1	300.0	05/04/95	NH	
Sulfide	1.	mg/L	1.0	1	376.1	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 05/04/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/16/95 by BAC

⁽³⁾ Sample Preparation on 05/08/95 by JF



Lab Number: WL-0668-35

Report Date: 05/24/95 PO No.

: **5***36-

CLIENT: DON CAMERON

OLIN CHEMICALS 51 KAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14 (UNFILT)	Ac	Aqueous			05/03/95	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL METHOD	ANALYZED BY	NOTES
Total Organic Carbon (TOC)	7.0	mg/L	1.0	1.0 415.1	05/06/95 BC	

* POL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-Popular promine the land the benefic distance of the telepopular and the second second

05/24/95

LJO/ejnjbb(dw)



Lab Number : WL-0668-36 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
SW-14D (UNFILT)		Aqueous			SR/ HLLICODDY	05/03/95		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	ВУ	NOTES	
Aluminum, Total	0.14	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1	
Argenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2	
Barium, Total	0.013	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1	
Calcium, Total	21	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1	
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1	
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN		
Iron, Total	0.74	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1	
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/11/95	KW	4	
Magnesium, Total	3.1	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1	
Manganese, Total	0.059	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1	
Potassium, Total	1.5	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LNO/ejnjbb(dw)/kew LE12ICW1

⁽¹⁾ Sample Preparation on 05/12/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/09/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195

⁽⁴⁾ Sample Preparation on 05/11/95 by VM using 3020



Lab Number : WL-0668-36

Report Date: 05/24/95

PO No.

: ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	RECEIVED		
SW-14D (UNFILT)		Aqueous			T.EBNER/ B.MOGILLICUDDY		95	05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Silicon, Total Sodium, Total	0.33 73	mg/L mg/L			200.7/6010 200.7/6010				

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

LJO/ejnjbb (dw) /kew LE12ICW1



Lab Number : WL-0668-36 Report Date: 05/24/95

PO No. :

CLIENT: DON CAMERON

OLIN CHRMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
SW-14D (UNFILT)	Aqueous			T.EBNER B.MCGIL	•	05/03/95		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate as HCCC3	43.	mg/L	1.0	20	APHA 406C	05/08/95	CM		
Branide	<1	mg/L	1.0	1	300.0	05/04/95	NH		
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM		
Chemical Oxygen Demand	24.	mg/L	1.0	15	410.4	05/04/95	LT		
Chloride	87	mg/L	1.0	1	325.1	05/09/95	NH		
Nitrate as N	0.78	mg/L	1.0	0.050	353.2	05/10/95	BC		
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM		
Nitrogen-Ammonia as N	1.7	mg/L	1.0	0.05	350.2	05/04/95	NH	1	
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH		
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	05/17/95	BC	2	
Solids - Filterable Residue (TDS)	280.	mg/L	1.0	10	160.1	05/09/95	JF	3	
Sulfate	4 5.	mg/L	1.0	1	300.0	05/04/95	NH		
Sulfide	<1	mg/L	1.0	1	376.1	05/04/95	NH		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 05/04/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/16/95 by BAC

⁽³⁾ Sample Preparation on 05/08/95 by JF



CLIENT: DON CAMERON

OLIN CHEMICALS 51 BAMES STREET WILMINGTON, MA 01887 Iab Number : WL-0668-36 Report Date: 05/24/95

PO No. : ▶

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION .	MP	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED		
SW-14D (UNFILIT)	Aç	Aqueous			TTCODDA 5\	05/03/95		05/03/95
PARAMETER	resolt	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Total Organic Carbon (TOC)	6.8	mg/L	1.0	1.0	415.1	05/06/95	ВС	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb (dw)

CC: STEVE MORROW-OLIN, IN RICK SACKS-SMITH/ BCM ENGINEERS ONE PLYMOUTH MEETING



Lab Number : WL-0668-37 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SI			SAMPL	ED BY	SAMPLED D	RECEIVED	
SW-12 (UNFILT)		Aqueous			T.EBNER/ B.MCGILLICUDDY		5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.14	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2
Barium, Total	0.015	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Total	12	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Total	. <0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Total	3.9	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Iead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2
Magnesium, Total	2.1	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Total	0.061	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Total	1.5	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1
Silicon, Total	0.79	mg/L	1.0	0.10	200.7/6010	05/17/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb (dw) /kew LE12ICWL

CC: STEVE MORROW-OLIN, IN RICK SACKS-SMITH/ BCM ENGINEERS ONE PLYMOUTH MEETING

⁽¹⁾ Sample Preparation on 05/12/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/09/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195



Lab Number : WL-0668-37

Report Date: 05/24/95

PO No. : 🕶

CLIENT: DON CAMERON OLIN CHEMICALS

51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX			ED BY	SAMPLED D			
SW-12 (UNFILT)	•	Aqueous		T.EBNER/ B.MCGILLICUDDY		05/03/95		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sodium, Total	34	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

LJO/ejnjbb (dw) /kew LE12ICW1

CC: STEVE MORROW-OLIN, TN RICK SACKS-SMITH/ BOM ENGINEERS ONE PLYMOUTH MEETING



Lab Number : WL-0668-37 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON
CLIN CHEMICALS

51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPLED	BY	SAMPLED D	RECEIVED	
SW-12 (UNFILT)	Aqueous			T.EBNER B.MOGIL	•	05/03/95		05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Branide	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Chemical Oxygen Demand	50.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride	69	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N	<0.050	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N	0.09	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Total as P	0.40	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids - Filterable Residue (TDS)	190.	mg/L	1.0	10	160.1	05/09/95	JF	3
Sulfate	11.	mg/L	1.0	1	300.0	05/04/95	NH	
Sulfide	<1	mg/L	1.0	1	376.1	05/04/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)

CC: STEVE MORROW-OLIN, IN RICK SACKS-SMITH/ BOM ENGINEERS ONE PLYMOUTH MEETING

⁽¹⁾ Sample Preparation on 05/04/95 by NH using 350.2

⁽²⁾ Sample Preparation on 05/16/95 by BAC

⁽³⁾ Sample Preparation on 05/08/95 by JF



Lab Number: WL-0668-37 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 BAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	MATRIX			ВУ	SAMPLED D	RECEIVED	
SW-12 (UNFILIT)	, Ac	Aquecus			TTCODDA \	05/03/95		05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Total Organic Carbon (TOC)	15.	mg/L	1.0	1.0	415.1	05/06/95	BC	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb (dw)

CC: STEVE MORROW-OLIN, IN RICK SACKS-SMITH/ BCM ENGINEERS ONE PLYMOUTH MEETING



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-12 Report Date: 05/24/95

PO No. : ▶

OLIN CHEMICALS 51 BAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	;	MATRIX SAMPLED BY			ED BY	SAMPLED DATE RECEIVED			
SW-17 (FILT/MS)	Aqueous			T.EBN B.MCG	ER/	05/03/95		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	1.85	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1	
Arsenic, Dissolved	0.037	mg/L	2.0	0.005	206.2/7060	05/07/95	KW	2	
Barium, Dissolved	1.67	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1	
Calcium, Dissolved	32.3	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1	
Chromium, Dissolved	0.178	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1	
Chromium, Hexavalent Dissolved	2.36	mg/L	1.0	0.015	6010	05/05/95	KW	3	
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	05/21/95	DIN	4	
Iron, Dissolved	• 0.975	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1	
Lead, Dissolved	0.018	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2	
Magnesium, Dissolved	8.26	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1	
Manganese, Dissolved	0.506	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1	
Potassium, Dissolved	22.0	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew/pph LE11ICW1

CC: STEVE MORROW-OLIN, IN RICK SACKS-SMITH/ BOM ENGINEERS ONE PLYMOUTH MEETING

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/05/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/03/95 by GFB using 7195

⁽⁴⁾ This is a calculation and is not applicable to a matrix spike.



Lab Number: WL-0668-12

Report Date: 05/24/95

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CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED DATE RECEIVED		
SW-17 (FILIT/MS)		Aqueous			T.EENER/ B.MCGILLICUDDY		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved Sodium, Dissolved	5.06 82.2	mg/L mg/L	2.0 1.0		200.7/6010 200.7/6010			_

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew/pph LE13ICW2

CC: STEVE MORROW-OLIN, IN RICK SACKS-SMITH/ BOM ENGINEERS ONE PLYMOUTH MEETING

⁽¹⁾ Sample Preparation on 05/13/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/11/95 by VM using 3010



Lab Number : WL-0668-12

Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED BY SAMPLED DATE RECEIV				
SW-17 (FILIT/MS)	Ac	ueous		T.EBNER B.MCGIL	•	05/03/95 05/03/9		05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	165.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Carbonate, Dissolved as CaCO3	23.7	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	81.0	mg/L	1.0	15	410.4	05/04/95	LT	
Nitrite as N, Dissolved	0.523	mg/L	1.0	0.050	353.2	05/04/95	CM	
Organic Carbon, Dissolved (DOC)	46.5	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphorus, Dissolved as P	0.789	mg/L	1.0	0.10	365.4	05/12/95	BC	1
Solids-Filt Residue, Dissolved	Not Appl.	.mg/L	1.0	10	160.1	05/08/95	JF	2,3

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) Sample Preparation on 05/11/95 by NEN
- (2) Sample Preparation on 05/05/95 by JF
- (3) NA-Matrix spike analysis is not applicable for this parameter.

05/24/95

LJO/ejnjbb(dw)

CC: STEVE MORROW-OLIN, IN RICK SACKS-SMTTH/ BCM ENGINEERS ONE PLYMOUTH MEETING



Lab Number : WL-0668-13

Report Date: 05/24/95 PO No. : ▶ ☆☆

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 117 of 119

SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	ATE	RECEIVED
SW-17 (FILT/DUP)	Aqueous			T.TEN B.MCG	ER/	05/03/9)5	05/03/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.019	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	42.7	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	2.40	mg/L	1.0	0.015	6010	05/05/95	KW	3,4
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	05/21/95	DN	5
Iron, Dissolved	0.138	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	6
Magnesium, Dissolved	3.50	mg/L	1.0	0.050	200.7/6010	05/18/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) Sample Preparation on 05/11/95 by VM using 3010
- (2) Sample Preparation on 05/05/95 by VM using 3020
- (3) Sample Preparation on 05/03/95 by GFB using 7195
- (4) A matrix spike was analyzed for hexavalent chromium rather than the client requested duplicate.
- (5) This is a calculation and is not applicable to a matrix spike.
- (6) Sample Preparation on 05/09/95 by VM using 3020

05/24/95

LJO/ejnjbb(đw)/kew/pph LE111CW1

CC: STEVE MORROW-OLIN, IN RICK SACKS-SMITH/ BOM ENGINEERS ONE PLYMOUTH MEETING



Lab Number : WL-0668-13

Report Date: 05/24/95

PO No.

: ▶

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 118 of 119

SAMPLE DESCRIPTION		MATRIX SAMPLED BY			ED BY	SAMPLED DATE RECEIVED			
SW-17 (FILIT/DUP)		Aqueous		T.EENER/ B.MCGILLICUDDY		05/03/95		05/03/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Manganese, Dissolved	0.113	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1	
Potassium, Dissolved	2.04	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1	
Silicon, Dissolved	3.52	mg/L	1.0	0.10	200.7/6010	05/16/95	KW	2	
Sodium, Dissolved	96.3	mg/L	2.0	0.10	200.7/6010	05/17/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnjbb(dw)/kew/pph IE11ICW1

CC: STEVE MORROW-OLIN, IN RICK SACKS-SMITH/ BOM ENGINEERS ONE PLYMOUTH MEETING

⁽¹⁾ Sample Preparation on 05/11/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/13/95 by VM using 3010



Lab Number : WL-0668-13 Report Date: 05/24/95

PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED	RECEIVED			
SW-17 (FILIT/DUP)	Ac	peous		T.KENER B.MCGIL		05/03/95 05/03/9		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZET	BY	NOTES
Bicarbonate, Dissolved as HCO3	69.3	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Carbonate, Dissolved as CaCC3	<20.0	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	<15.0	mg/L	1.0	15	410.4	05/04/95	LT	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Organic Carbon, Dissolved (DOC)	6.33	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphorus, Dissolved as P	0.108	mg/L	1.0	0.10	365. 4	05/12/95	5 BC	1
Solids-Filt Residue, Dissolved	446	mg/L	1.0	10	160.1	05/08/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 05/11/95 by NEN

(2) Sample Preparation on 05/05/95 by JF

05/24/95

LJO/ejnemg/jbb(dw)

CC: STEVE MORROW-OLIN, TN
RICK SACKS-SMITH/
BOM ENGINEERS
ONE PLYMOUTH MEETING

Respectfully submitted, PACE, INC.

Laura J. O'Meara

Supervisor, Client Services



Lab Number : WL-0682-1 Report Date: 05/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 1 of 18

SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	SAMPLED DATE RECEIVED			
GW-56S (FILIT)		Aqueous			ER/	05/04/95		05/04/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Dissolved	4.5	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1		
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2		
Barium, Dissolved	0.024	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1		
Calcium, Dissolved	34	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1		
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1		
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/08/95	KW	3		
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/24/95	DN			
Iron, Dissolved	0.043	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1		
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2		
Magnesium, Dissolved	7.1	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1		
Manganese, Dissolved	0.64	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1		
Potassium, Dissolved	1.6	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1		
Silicon, Dissolved	7.3	mg/L	2.0	0.10	200.7/6010	05/17/95	KW	1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

IJO/ejnclm(dw)/kew/pph IE12ICWI

CC: STEVE MORROW - OLIN, TN RICK SACKS - SMITH/ BCM, PA

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400 FAX: 207-775-4029

⁽¹⁾ Sample Preparation on 05/12/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/09/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/04/95 by GFB using 7195



Lab Number: WL-0682-1

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887 Report Date: 05/24/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

Page 2 of 18

SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	SAMPLED DATE RECEIV		
GW-56S (FILT)	Aqueous			T.EEN B.MCG	ER/	05/04/95		05/04/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	31	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

LJO/ejnclm(dw)/kew/pph IB12ICW1 CC: STEVE MORROW - OLIN, TN RICK SACKS - SMITH/ BOM, PA



Lab Number : WL-0682-1

Report Date: 05/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 3 of 18

MATRIX SAMPLED BY				BY	SAMPLED D	ATE	ATE RECEIVED			
GW-56S (FILT)	Ac	peous		T.EBNER B.MCGIL	•	05/04/95 05/04/99				
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Bicarbonate, Dissolved as HCC3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM			
Bromide, Dissolved	1.	mg/L	1.0	1.	300.0	05/08/95	NH			
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM			
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/12/95	LT			
Chloride, Dissolved	36.	mg/L	1.0	1.	325.1	05/09/95	NH			
Nitrate as N, Dissolved	3.9	mg/L	20	0.050	353.2	05/10/95	BC			
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/10/95	CM	1		
Nitrogen-Ammonia as N, Dissolved	6.9	mg/L	1.0	0.05	350.2	05/05/95	NH	2		
Organic Carbon, Dissolved (DOC)	2.6	mg/L	1.0	1.0	415.1	05/06/95	BC			
Phosphate Ortho as P, Dissolved	12.	mg/L	1.0	2.	365.2	05/05/95	NH			
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365. 4	05/17/95	BC	3		
Solids-Filt Residue, Dissolved	260.	mg/L	1.0	10	160.1	05/10/95	JF	4		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnclm(dw)

⁽¹⁾ Due to laboratory error, the analysis was performed 4 day(s) after expiration of the analytical hold-time for this parameter.

⁽²⁾ Sample Preparation on 05/05/95 by NH using 350.2

⁽³⁾ Sample Preparation on 05/16/95 by BAC

⁽⁴⁾ Sample Preparation on 05/09/95 by JF



Lab Number : WL-0682-1 Report Date: 05/24/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 4 of 18

SAMPLE DESCRIPTION	MP	MATRIX SAMPLED BY Aqueous T.EENER/ B.MUGILLICUDDY				SAMPLED D	RECEIVED	
GW-56S (FILT)	Aç					05/04/95 05/04/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfate, Dissolved Sulfide, Dissolved	160. <1	mg/L mg/L	1.0		300.0	05/08/95 05/08/95		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnclm(dw)



Lab Number: WL-0682-2

Report Date: 05/24/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 5 of 18

SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED DATE RECEIVE			
GW-8 (FILIT)		Aqueous	J	T.EENER/ 05/0 B.MCGILLICUDDY		05/04/9	5	05/04/95	
PARAMETER	· RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	0.39	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2	
Barium, Dissolved	0.009	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1	
Calcium, Dissolved	43	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/08/95	KW	3	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/24/95	DN		
Iron, Dissolved	0.88	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	. 2	
Magnesium, Dissolved	11	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1	
Manganese, Dissolved	4.6	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1	
Potassium, Dissolved	4.7	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1	
Silicon, Dissolved	5.9	mg/L	2.0	0.10	200.7/6010	05/17/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnclm(dw)/kew/pph LR12ICW1

⁽¹⁾ Sample Preparation on 05/12/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/09/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/04/95 by GFB using 7195



Lab Number: WL-0682-2

Report Date: 05/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 6 of 18

SAMPLE DESCRIPTION		MATRIX		SAMPI	LED BY	SAMPLED D	ATE	RECEIVED	
GW-8 (FILIT)		Aqueous	 	T.EBR B.MCX	NER/ GILLICUDDY	05/04/95		05/04/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sodium, Dissolved	120	mg/L	5.0	0.10	0 200.7/6010	05/15/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

LJO/ejnclm(dw)/kew/pph LE12ICW1

CC: STEVE MORROW - OLIN, TN RICK SACKS - SMITH/ BCM, PA

> P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

FAX: 207-775-4029

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CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-0682-2 Report Date: 05/24/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	TRIX		SAMPLED	SAMPLED DATE RECEIVED				
GW-8 (FILIT)	Aqueous T.EBNER/ B.MCGILLICUDI			2	05/04/9	15	5 05/04/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	26.	mg/L	1.0	20	APHA 406C	05/08/95	CM		
Bromide, Dissolved	1.	mg/L	1.0	1.	300.0	05/08/95	NH		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM		
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/12/95	LT		
Chloride, Dissolved	120.	mg/L	1.0	1.	325.1	05/09/95	NH		
Nitrate as N, Dissolved	4.8	mg/L	20	0.050	353.2	05/10/95	BC		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/10/95	CM	1	
Nitrogen-Ammonia as N, Dissolved	140	mg/L	1.0	0.5	350.2	05/05/95	NH	2	
Organic Carbon, Dissolved (DOC)	3.5	mg/L	1.0	1.0	415.1	05/06/95	BC		
Phosphate Ortho as P, Dissolved	0.03	mg/L	1.0	0.02	365.2	05/05/95	NH		
Phosphorus, Dissolved as P	0.27	mg/L	1.0	0.10	36 5.4	05/17/95	BC	3	
Solids-Filt Residue, Dissolved	800.	mg/L	1.0	10	160.1	05/10/95	JF	4	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnclm(dw)

⁽¹⁾ Due to laboratory error, the analysis was performed 4 day(s) after expiration of the analytical hold-time for this parameter.

⁽²⁾ Sample Preparation on 05/05/95 by NH using 350.2

⁽³⁾ Sample Preparation on 05/16/95 by BAC

⁽⁴⁾ Sample Preparation on 05/09/95 by JF



Lab Number : WL-0682-2 Report Date: 05/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

· REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	MATRIX SAMPLED BY					SAMPLED DATE RECEIVE				
GW-8 (FILT)	Ac	Aqueous T.EBNER/ B.MOGILLICUD			•	05/04/95 05/04/95					
PARAMETER	PESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES			
Sulfate, Dissolved Sulfide, Dissolved	710. <1	mg/L	1.0		300.0	05/08/95 05/08/95					

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnclm(dw)

CC: STEVE MORROW - OLIN, TN RICK SACKS - SMITH/ BCM, PA

FAX: 207-775-4029



Lab Number : WL-0682-3 Report Date: 05/24/95

PO No.

: SE-CH-827-VAR-C

CLIN CHEMICALS 51 RAMES STREET

CLIENT: DON CAMERON

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED DATE RECEIVED			
SW-18 (FILIT)		Aqueous	<u> </u>	T.EBNI B.MCG	SR/ HLLIOUDDY	05/04/95 05/0 DDY			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	ву	NOTES	
Aluminum, Dissolved	2.3	mg/L	1.0	0.10	200.7/6010	05/15/95	КW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2	
Barium, Dissolved	0.032	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1	
Calcium, Dissolved	· 39	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	. 1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/08/95	KW	3	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/24/95	DN		
Iron, Dissolved	0.69	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2	
Magnesium, Dissolved	2.4	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1	
Manganese, Dissolved	0.50	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1	
Potassium, Dissolved	<0.50	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1	
Silicon, Dissolved	6.5	mg/L	2.0	0.10	200.7/6010	05/17/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnclm(dw)/kew/pph LE12ICWI

⁽¹⁾ Sample Preparation on 05/12/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/09/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/04/95 by GFB using 7195



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-3 Report Date: 05/24/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 10 of 18

SAMPLE DESCRIPTION	·	MATRIX			ED BY	SAMPLED D	RECEIVED		
SW-18 (FILT)		Aqueous		T.EENER/ B.MCGILLICUDDY		05/04/95		05/04/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sodium, Dissolved	15	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

LJO/ejnclm(dw)/kew/pph LE12ICW1

CC: STEVE MORROW - CLIN, TN RICK SACKS - SMITH/

BCM, PA



Lab Number : WL-0682-3
Report Date: 05/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 11 of 18

SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
SW-18 (FILT)	Aqueous			T.EBNER B.MOGIL	•	05/04/9	05/04/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	NR	mg/L	1.0	20	APHA 406C	05/08/95	CM	1
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	05/08/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	2
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/12/95	LT	
Chloride, Dissolved	24.	mg/L	1.0	1.	325.1	05/09/95	NH	
Nitrate as N, Dissolved	0.26	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/10/95	CM	3
Nitrogen-Ammonia as N, Dissolved	1.4	mg/L	1.0	0.05	350.2	05/05/95	NH	4
Organic Carbon, Dissolved (DOC)	4.7	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/05/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/17/95	BC	5

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnclm(dw)

⁽¹⁾ Initial sample pH was <4.5. Bicarbonate could not be analyzed.

⁽²⁾ Initial sample pH was <4.5. Carbonate could not be analyzed.

⁽³⁾ Due to laboratory error, the analysis was performed 4 day(s) after expiration of the analytical hold-time for this parameter.

⁽⁴⁾ Sample Preparation on 05/05/95 by NH using 350.2

⁽⁵⁾ Sample Preparation on 05/16/95 by BAC



Lab Number: WL-0682-3 Report Date: 05/24/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET

CLIENT: DON CAMERON

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 12 of 18

SAMPLE DESCRIPTION	MA	MATRIX SAMPLED BY				SAMPLED DATE RECEI			
SW-18 (FILT)	. Ac	ueous		T.EENER/ 05/04/95 B.MCGILLICUDDY			05/04/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	ву	NOTES	
Solids-Filt Residue, Dissolved Sulfate, Dissolved Sulfide, Dissolved	240. 140. <1	mg/L mg/L mg/L	1.0 1.0 1.0	5.	160.1 300.0 376.1	05/10/95 05/08/95 05/08/95	NH	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 05/09/95 by JF

05/24/95

LJO/ejnclm(dw)



Lab Number: WL-0682-4

Report Date: 05/24/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 13 of 18

SAMPLE DESCRIPTION	1	MATRIX		SAMPL	ED BY	SAMPLED D	MPLED DATE RECEIVED 05/04/95 05/04/95 WALYZED BY NOTES			
GW-56S (UNFILIT)	1	Aqueous			ER/	05/04/9	05/04/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Chromium, Hexavalent Chromium, Total Chromium, Trivalent	<0.015 <0.015 <0.015		1.0 1.0 1.0	-	6010 200.7/6010 Calculation	05/08/95 05/11/95 05/24/95	KW	_		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(2) Sample Preparation on 05/09/95 by VM using 3010

05/24/95

LJO/ejnclm(dw) LE04WA

CC: STEVE MORROW - OLIN, TN RICK SACKS - SMITH/

BCM, PA

⁽¹⁾ Sample Preparation on 05/04/95 by GFB using 7195



Lab Number: WL-0682-5

Report Date: 05/24/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 14 of 18

SAMPLE DESCRIPTION		MATRIX		SAMPL	SO BY	SAMPLED DATE RECEIVE			
GM-8 (UNFILT)	·	Aqueous T.EBNER/ B.MOGILLICUDDY				05/04/95		05/04/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/08/95	KW	1	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/11/95	KW	2	
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/24/95	DN		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnclm(dw)

CC: STEVE MORROW - OLIN, IN RICK SACKS - SMITH/ BCM, PA

> P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400 FAX: 207-775-4029

⁽¹⁾ Sample Preparation on 05/04/95 by GFB using 7195

⁽²⁾ Sample Preparation on 05/09/95 by VM using 3010



Lab Number: WL-0682-6 Report Date: 05/24/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHRMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 15 of 18

SAMPLE DESCRIPTION		MATRIX			ED BY	SAMPLED D	RECEIVED	
SW-18 (UNFILT)		Aqueous			T.EBNER/ B.MCGILLICUDDY		05/04/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Alumirum, Total	2.4	mg/L	1.0	0.10	200.7/6010	05/11/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2
Barium, Total	0.032	mg/L	1.0	دـ0.00	200.7/6010	05/11/95	KW	1.
Calcium, Total	43	mg/L	1.0	0.050	200.7/6010	05/11/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/08/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/11/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/24/95	DN	
Iron, Total	0.75	mg/L	1.0	0.025	200.7/6010	05/11/95	KW	1
lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2
Magnesium, Total	. 2.5	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Total	0.56	mg/L	1.0	0.005	200.7/6010	05/11/95	KW	1
Potassium, Total	1.1	mg/L	1.0	0.50	200.7/6010	05/12/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LFO/ejnclm(dw)/kaw LEO9WA

⁽¹⁾ Sample Preparation on 05/09/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/09/95 by VM using 3020

⁽³⁾ Sample Preparation on 05/04/95 by GFB using 7195



Lab Number : WL-0682-6 Report Date: 05/24/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 16 of 18

SAMPLE DESCRIPTION		MATRIX		SAMPLED DATE RECEI					
SW-18 (UNFILIT)		Aqueous			T.EBNER/ B.MCGILLICUDDY		5	05/04/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Silicon, Total Sodium, Total	7.3 16	mg/L mg/L	2.0		200.7/6010 200.7/6010	05/12/95 05/11/95		_	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnclm(dw)/kaw
LE12ICWL
CC: STEVE MORROW - OLIN, TN
RICK SACKS - SMITH/
BCM, PA

⁽¹⁾ Sample Preparation on 05/12/95 by VM using 3010

⁽²⁾ Sample Preparation on 05/09/95 by VM using 3010



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-6 Report Date: 05/24/95

PO No. : SB-CH-827-VAR-C

OLIN CHRMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 17 of 18

SAMPLE DESCRIPTION MATRIX			SAMPLED	BY	SAMPLED I	RECEIVED		
SW-18 (UNFILT)	Ac	meons		T.EBNER/ 05/04/95 (B.MCGILLICUDDY			05/04/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	NR	mg/L	1.0	20	APHA 406C	05/08/95	CM	1
Bromide	<1	mg/L	1.0	1.	300.0	05/08/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	2
Chemical Oxygen Demand	<15	mg/L	1.0	15	410.4	05/12/95	LT	
Chloride	24.	mg/L	1.0	1.	325.1	05/09/95	NH	
Nitrate as N	0.25	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	05/10/95	CM	3
Nitrogen-Ammonia as N	2.0	mg/L	1.0	0.05	350.2	05/05/95	NH	4
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	05/05/95	NH	
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	05/17/95	BC	5

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnclm(dw)

⁽¹⁾ Initial sample pH was <4.5. Bicarbonate could not be analyzed.

⁽²⁾ Initial sample pH was <4.5. Carbonate could not be analyzed.

⁽³⁾ Due to laboratory error, the analysis was performed 4 day(s) after expiration of the analytical hold-time for this parameter.

⁽⁴⁾ Sample Preparation on 05/05/95 by NH using 350.2

⁽⁵⁾ Sample Preparation on 05/16/95 by BAC



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-0682-6 Report Date: 05/24/95

PO No. : SE-CH-827-VAR-C

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 18 of 18

SAMPLE DESCRIPTION	M	TRIX		SAMPLED	BY	SAMPLED D	SAMPLED DATE RECEIVED				
SW-18 (UNFILIT)	Ac	ueous		T.EBNER B.MCGIL	•	05/04/9	05/04/95 05/04/				
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES			
Solids - Filterable Residue (TDS) Sulfate Sulfide Total Organic Carbon (TOC)	240. 130. <1 5.1	mg/L mg/L mg/L	1.0 1.0 1.0	5. 1.0	160.1 300.0 376.1 415.1	05/10/95 05/08/95 05/08/95 05/06/95	NH NH				

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 05/09/95 by JF

05/24/95

LJO/ejnclm(dw)

CC: STEVE MORROW - OLIN, TN RICK SACKS - SMITH/

BOM, PA

Respectfully submitted,

PACE, INC.

ıra J. O'Meara

Supervisor, Client Services



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-0848-1 Report Date: 06/22/95

PO No.

: SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

Page 1 of 10

SAMPLE DESCRIPTION	MATRIX SAMPLED B				D BY	SAMPLED D	ATE		
BUTTERS ROW #1	A	Aqueous PAUL FU			UL FULLERION 0		5	06/01/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	06/16/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 06/05/95 by VM using 3010

06/22/95

LJO/ejnejn/kew/vm(dw) LF05ICW2

CC: OLIN (TN)

ATTN: STEVE MORROW



Lab Number : WL-0848-1

Report Date: 06/22/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 2 of 10

SAMPLE DESCRIPTION	MAX	RIX		SAMPLED	D BY SAMPLED DATE RECEI				
BUTTERS ROW #1	Aqu	Aqueous PAUL FULLERION			05/31/95		06/01/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chloride	75.	mg/L	4.0	2.0	325.2	06/08/95	вс		
Nitrogen-Ammonia as N	4.0	mg/L	10	0.10	350.1	06/07/95	BC		
Sulfate	95.	mg/L	20	1.0	375.4	06/05/95	LT		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

06/22/95

LJO/ejnvm(dw)

CC: OLIN (TN)

ATTN: STEVE MORROW



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-0848-2 Report Date: 06/22/95

PO No.

: SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

Page 3 of 10

SAMPLE DESCRIPTION	MF	MATRIX SAMPLED BY				SAMPLED DATE RECEIVE		
TOWN PARK	Ac	queous	is PAUL FULLERION			05/31/9	5	06/01/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	06/16/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation by 100 using 3010

06/22/95

LJO/ejnejn/kew/vm(dw) LF05ICW2

CC: OLIN (TN)

ATIN: STEVE MORROW



Lab Number : WL-0848-2 Report Date: 06/22/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 4 of 10

SAMPLE DESCRIPTION	MATRIX SAMPLED BY					SAMPLED DATE RECEIVED			
TOWN PARK	Aqu	Aqueous PAUL FULLERION			05/31/95		06/01/95		
PARAMETER	RESULT	UNITS	DF	*PQL METHOD		ANALYZED BY		NOTES	
Chloride	130.	mg/L	20	2.0	325.2	06/08/95	BC		
Nitrogen-Ammonia as N	0.20	mg/L	1.0	0.10	350.1	06/07/95	BC		
Sulfate	18.	mg/L	2.0	1.0	375.4	06/05/95	LT		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

06/22/95

LJO/ejnpph/vm(dw)

CC: OLIN (TN)

ATTN: STEVE MORROW



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0848-3

Report Date: 06/22/95

PO No.

: SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 5 of 10

SAMPLE DESCRIPTION	<u>M</u>	ATRIX		SAMPLED BY SAMPLED DATE RE				RECEIVED	
CHESINUT ST	А	Aqueous PAUL FULLERION				05/31/95		06/01/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	06/16/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 06/05/95 by VM using 3010

06/22/95

LJO/ejnejn/kew/vm(dw) LF05ICW2

CC: OLIN (TN)

ATIN: STEVE MORROW

340 County Briad #5, PO Box 720 Westfronk, MS 04098 TEL: 207-874-2400 FAX 207-775-4029



Lab Number: WL-0848-3 Report Date: 06/22/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 6 of 10

SAMPLE DESCRIPTION	MAT	RIX		SAMPLED	BY	SAMPLED D	05/31/95 06/01/95			
CHESINUT ST	Aqu	Aqueous PAU: FULLERION				05/31/95 06/01,		06/01/95		
PARAMETER	RESULT	UNITS	DF	*PQL METHOD		ANALYZED BY		NOTES		
Chloride	80	mg/L	1.0	2.0	325.2	06/06/95	BC	·		
Nitrogen-Ammonia as N	1.4	mg/L	10	0.10	350.1	06/07/95	BC			
Sulfate	28.	mg/L	4.0	1.0	375.4	06/05/95	LT			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

06/22/95

LJO/ejnpph/vm(dw)

CC: OLIN (TN)

ATIN: STEVE MORROW

FAX 207-775-4029



Lab Number: WL-0848-4

Report Date: 06/22/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 7 of 10

SAMPLE DESCRIPTION		MIRIX	_	SAMPLED BY SAMPLED DATE:				06/01/95	
CHESINUT ST 1A	Ą	Aqueous			PAUL FULLERION		5		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	06/16/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 06/05/95 by VM using 3010

06/22/95

LJO/ejnejn/kew/vm(dw) LF05ICW2

CC: OLIN (TN)

ATTN: STEVE MORROW



Lab Number: WL-0848-4 Report Date: 06/22/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 8 of 10

SAMPLE DESCRIPTION	IAM	MATRIX SAMPLED BY						SAMPLED DATE RECEIVED			
CHESINUT ST 1A	Aqu	Aqueous			PAUL FULLERION			06/01/95			
PARAMETER .	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES			
Chloride	53	mg/L	1.0	2.0	325.2	06/06/95	BC				
Nitrogen-Ammonia as N	0.28	mg/L	1.0	0.10	350.1	06/07/95	BC				
Sulfate	16.	- '.									

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

06/22/95

LJO/ejnpph/vm(dw)

CC: OLIN (TN)

ATTN: STEVE MORROW



Lab Number : WL-0848-5 Report Date: 06/22/95

n No

: SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	<u> </u>	MATRIX			SAMPLED BY		SAMPLED DATE RECEIVED		
BUTTERS ROW #2		Aqueous			PAUL FULLERION		5	06/01/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	06/16/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 06/05/95 by VM using 3010

06/22/95

LJO/ejnejn/kew/vm(dw) LF05ICW2

CC: OLIN (TN)

ATTN: STEVE MORROW



Lab Number: WL-0848-5

Report Date: 06/22/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 10 of 10

SAMPLE DESCRIPTION	IAM	MATRIX			BY	SAMPLED DATE RECEIVED			
BUTTERS ROW #2	Aqu				PAUL FULLERION			06/01/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chloride Nitrogen-Ammonia as N	63 0.53	mg/L	1.0 1.0		325.2 350.1	06/06/95 06/07/95			
Sulfate	42.		4.0		375.4	06/07/95			

^{*} POL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

06/22/95

LJO/ejnpph/vm(dw)

CC: OLIN (TN)

ATTN: STEVE MORROW

Respectfully submitted,

PACE, INC.

Laura J. O'Meara

Supervisor, Client Services



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1098-1 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	SAMPLED D	RECEIVED	
S00001 (FILT)		Aqueous		T. EB	NER	07/19/9	07/19/95	
PARAMETER	RESULT	UNITIS	DF	*PQL	WEIHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	1.4	mg/L	1.0	0.10	200.7/6010	07/24/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/24/95	KW	2
Barium, Dissolved	0.019	mg/L	1.0	0.005	200.7/6010	07/24/95	KW	1
Calcium, Dissolved	25.	mg/L	1.0	0.050	200.7/6010	07/24/95	KW	1
Chromium, Dissolved	0.021	mg/L	1.0	0.015	200.7/6010	07/24/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent	0.021	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	0.88	mg/L	1.0	0.025	200.7/6010	07/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	3.2	mg/L	1.0	0.050	200.7/6010	07/24/95	KW	1
Manganese, Dissolved	0.23	mg/L	1.0	0.005	200.7/6010	07/24/95	KW	1
Potassium, Dissolved	1.7	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1
Silicon, Dissolved	4.8	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	4

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) Sample Preparation on 07/23/95 by VM using 3010
- (2) Sample Preparation on 07/23/95 by VM using 3020
- (3) Sample Preparation on 07/19/95 by KAW using 7195
- (4) Sample Preparation on 07/25/95 by VM using 3010

08/10/95

LJO/ejngbp(dw) LG23ICWl CC: BCM

ATTN: RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400 An Equal Opportunity Employer



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-1098-1

Report Date: 08/10/95 PO No.

: SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 2 of 81

SAMPLE DESCRIPTION					SAMPLED BY T. EBNER		SAMPLED DATE REC		
S00001 (FILT))5	07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sodium, Dissolved	34.	mg/L	1.0	0.10	200.7/6010	07/24/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw) LG23ICW1 CC: BCM

> ATTN:RICK SACKS OLIN (TN)

 \circ \Box

ATTN:STEVE MORROW



Lab Number: WL-1098-1 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 3 of 81

SAMPLE DESCRIPTION	M2	MATRIX SAMPLED BY				SAMPLED DATE RECEIVE		
S00001 (FILT)	Aqueous T. EBNER			07/19/9	07/19/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	50.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	32.	mg/L	1.0	15	410.4	07/21/95	LT	
Chloride, Dissolved	45.	mg/L	1.0	1,	325.1	07/20/95	NH	
Nitrate as N, Dissolved	0.36	mg/L	1.0	0.050	353.2	07/25/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	0.37	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Organic Carbon, Dissolved (DOC)	10.	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.04	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	230.	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	32.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95	0
	0
LJO/ejngbp (dw) /pph	0
	\mathcal{O}
CC: BCM	0
ATTN:RICK SACKS	2
OLIN (TN)	
ATIN:STEVE MORROW	

⁽¹⁾ Sample Preparation on 07/25/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CIM

⁽³⁾ Sample Preparation on 07/20/95 by JF



Iab Number : WL-1098-2
Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 4 of 81

SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	SAMPLED D	RECEIVED	
S00001 (FILT/MS)		Aqueous	I	T. EB	NER	07/19/9	07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	WEIHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	3.16	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	0.037	mg/L	2.0	0.005	206.2/7060	07/27/95	KW	2
Barium, Dissolved	1.81	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	26.2	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	0.214	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent Dissolved	2.17	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent	Not Appl.	mg/L	1.0	0.015	Calculation	08/08/95	DN	4
Iron, Dissolved	1.65	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1
Lead, Dissolved	<0.025	mg/L	5.0	0.005	239.2/7421	07/28/95	KW	2,5
Magnesium, Dissolved	6.62	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Manganese, Dissolved	0.680	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	21.6	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp(dw) LG23ICW1

CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW

90006

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⁽¹⁾ Sample Preparation on 07/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/26/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽⁵⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽⁴⁾ This is a calculation and is not applicable to a matrix spike.



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-1098-2 Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 5 of 81

SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED DATE RECEIVED				
S00001 (FILT/MS)		Aqueous	3	T. EB	NER	07/19/9	5	07/19/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Silicon, Dissolved Sodium, Dissolved	6.92 36.7	mg/L mg/L	2.0		200.7/6010 200.7/6010			_		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp(dw) LG25Wl

CC: BCM

ATIN:RICK SACKS

OLIN (TN)

ATIN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/25/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3010



Lab Number : WL-1098-2
Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 6 of 81

SAMPLE DESCRIPTION	MA	MATRIX SAMPLED BY AQUEOUS T. EBNER				SAMPLED DATE RECEIVED		
S00001 (FILT/MS)	Ac					07/19/95 07,		07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	183	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	12.	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	91.0	mg/L	1.0	15	410.4	07/21/95	LT	
Chloride, Dissolved	96.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.050	353.2	07/31/95	BC	1
Nitrite as N, Dissolved	0.477	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	1.4	mg/L	1.0	0.05	350.2	07/25/95	NH	2
Organic Carbon, Dissolved (DOC)	49.4	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.52	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	0.920	mg/L	1.0	0.10	365.4	07/28/95	BC	3
Solids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	07/21/95	JF	4,5

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw) /pph

CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATIN: STEVE MORROW

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 $\boldsymbol{\omega}$

⁽¹⁾ NA=This is a calculation and is not applicable to a matrix spike.

⁽²⁾ Sample Preparation on 07/25/95 by NH using 350.2

⁽³⁾ Sample Preparation on 07/27/95 by CLM

⁽⁴⁾ Sample Preparation on 07/20/95 by JF

⁽⁵⁾ NA=Matrix spike analysis is not applicable for this parameter.



Lab Number: WL-1098-2 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 7 of 81

SAMPLE DESCRIPTION	MATRIX S			SAMPLED BY		SAMPLED DATE RECEIV		
S00001 (FILT/MS)	Ac	Aqueous			er er	07/19/95 07/19/		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfate, Dissolved Sulfide, Dissolved	45. 37.	mg/L mg/L	1.0		1 300.0 1 376.1	07/21/95 07/21/95		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw) /pph

CC: BCM
ATTN:RICK SACKS
OLIN (TN)
ATTN:STEVE MORROW



Lab Number : WL-1098-3 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 8 of 81

SAMPLE DESCRIPTION	MATRIX			SAMPLED BY		SAMPLED DATE RECEIVED			
S00001 (FILT/DUP)	Aqueous		T. EB	T. EBNER		5	07/19/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	1.49	mg/L	1.0	0.10	200.7/6010	07/24/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/24/95	KW	2	
Barium, Dissolved	0.018	mg/L	1.0	0.005	200.7/6010	07/24/95	KW	1	
Calcium, Dissolved	26.4	mg/L	1.0	0.050	200.7/6010	07/24/95	KW	1	
Chromium, Dissolved	0.019	mg/L	1.0	0.015	200.7/6010	07/24/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3	
Chromium, Trivalent	0.019	mg/L	1.0	0.015	Calculation	08/08/95	DN		
Iron, Dissolved	0.853	mg/L	1.0	0.025	200.7/6010	07/24/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2	
Magnesium, Dissolved	3.24	mg/L	1.0	0.050	200.7/6010	07/24/95	KW	1	
Manganese, Dissolved	0.234	mg/L	1.0	0.005	200.7/6010	07/24/95	KW	1	
Potassium, Dissolved	2.00	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1	
Silicon, Dissolved	4.93	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	4	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejnejn IG23ICWl CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW

⁽¹⁾ Sample Preparation on 07/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽⁴⁾ Sample Preparation on 07/25/95 by VM using 3010



Lab Number : WL-1098-3 Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 9 of 81

SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	SAMPLED DATE RECEIVED		
S00001 (FILIT/DUP)	Aqueous			T. EB	T. EBNER		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	35.7	mg/L	1.0	0.10	200.7/6010	07/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejnejn 1G231CW1

CC: BCM

ATTN:RICK SACKS

OLIN (IN)

ATIN: STEVE MORROW

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400 Fay: 207-775-4029

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Lab Number: WL-1098-3 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 10 of 81

SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
S00001 (FILT/DUP)	Aqueous			T. EBNE	R	07/19/95		07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	49.5	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	28.0	mg/L	1.0	15	410.4	07/21/95	LT	
Chloride, Dissolved	44.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	0.354	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	•
Nitrogen-Ammonia as N, Dissolved	0.43	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Organic Carbon, Dissolved (DOC)	10.1	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.04	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.100	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	203	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	32.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngtp (dw) /pph

CC: BOM

ATTN:RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW

⁽¹⁾ Sample Preparation on 07/25/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CLM

⁽³⁾ Sample Preparation on 07/20/95 by JF



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-4 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	BY SAMPLED DATE I			
S00002 (FILT)		Aqueous			NER	07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	1.2	mg/L	1.0	0.10	200.7/6010	07/24/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2	
Barium, Dissolved	0.017	mg/L	1.0	0.005	200.7/6010	07/24/95	KW	1	
Calcium, Dissolved	27.	mg/L	1.0	0.050	200.7/6010	07/24/95	KW	1	
Chromium, Dissolved	0.023	mg/L	1.0	0.015	200.7/6010	07/24/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3	
Chromium, Trivalent	0.023	mg/L	1.0	0.015	Calculation	08/08/95	DN		
Iron, Dissolved	0.74	mg/L	1.0	0.025	200.7/6010	07/24/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2	
Magnesium, Dissolved	3.3	mg/L	1.0	0.050	200.7/6010	07/24/95	KW	1	
Manganese, Dissolved	0.24	mg/L	1.0	0.005	200.7/6010	07/24/95	KW	1	
Potassium, Dissolved	2.3	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1	
Silicon, Dissolved	4.6	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	4	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95	0
	0
LJO/ejngbp (dw)	. 0
IG23ICW1	0
CC: BCM	
ATTN:RICK SACKS	ω
OLIN (TN)	
ATIN: STEVE MORROW	

⁽¹⁾ Sample Preparation on 07/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽⁴⁾ Sample Preparation on 07/25/95 by VM using 3010



Lab Number: WL-1098-4

CLIN CHEMICALS

CLIENT: DON CAMERON

PO No.

Report Date: 08/10/95 : SE-CH-827-VAR-C

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
S00002 (FILT)		Aqueous		T. EB	T. EBNER		5	07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	33.	mg/L	1.0	0.10	200.7/6010	07/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw) IG23ICW1

CC: BCM

ATTIN: RICK SACKS

OLIN (TN)

ATTN: STEVE MORROW



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-1098-4 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 13 of 81

SAMPLE DESCRIPTION	MA	TRIX		SAMPLED	BY	SAMPLED DATE RECEIVED			
S00002 (FILT)	Aq	pecus		T. EBNE	R	07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	47.	mg/L	1.0	20	APHA 406C	07/21/95	CM		
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM		
Chemical Oxygen Demand, Dissolved	33.	mg/L	1.0	15	410.4	07/21/95	LT		
Chloride, Dissolved	44.	mg/L	1.0	1.	325.1	07/20/95	NH		
Nitrate as N, Dissolved	0.59	mg/L	1.0	0.050	353.2	07/31/95	BC		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT		
Nitrogen-Ammonia as N, Dissolved	0.44	mg/L	1.0	0.05	350.2	07/25/95	NH	1	
Organic Carbon, Dissolved (DOC)	10.	mg/L	1.0	1.0	415.1	07/25/95	BC		
Phosphate Ortho as P, Dissolved	0.03	mg/L	1.0	0.02	365.2	07/20/95	NH		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2	
Solids-Filt Residue, Dissolved	210.	mg/L	1.0	10	160.1	07/21/95	JF	3	
Sulfate, Dissolved	33.	mg/L	1.0	1	300.0	07/21/95	NH		
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95	0
	0
IJO/ejngbp (dw) /pph	0
	0
CC: BCM	-
ATIN:RICK SACKS	5
OLIN (TN)	
ATTIN - STEUE MODDOW	

⁽¹⁾ Sample Preparation on 07/25/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CIM

⁽³⁾ Sample Preparation on 07/20/95 by JF



Lab Number : WL-1098-5 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS

51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED			ED BY	SAMPLED DATE RECEIVED				
S00003 (FILT)		Aqueous		Ψ. EB	T. EBNER		5	07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	0.36	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2	
Barium, Dissolved	0.044	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Calcium, Dissolved	7.1	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3	
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN		
Iron, Dissolved	20.	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2	
Magnesium, Dissolved	2.4	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1	
Manganese, Dissolved	1.2	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Potassium, Dissolved	1.8	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1	
Silicon, Dissolved	6.5	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	4	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

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LJO/ejngbp(dw) LG23ICWl CC: BCM

_ _ _

ATTN:RICK SACKS OLIN(TN) -

ATIN: STEVE MORROW

FAX: 207-775-4029

⁽¹⁾ Sample Preparation on 07/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽⁴⁾ Sample Preparation on 07/25/95 by VM using 3010



Lab Number: WL-1098-5 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY			SAMPLED DATE RECEIVED			
S00003 (FILT)		Aqueous T. EBNER			NER	07/19/95 07/19/95		
PARAMETER	RESULT	UNITS	DF ·	PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	44.	mg/L 1	.0	0.10	200.7/6010	07/25/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

(NT) NLIO

ATTIN: STEVE MORROW

LJO/ejngbp (dw) LG23ICW1 CC: BCM ATIN:RICK SACKS



Lab Number: WL-1098-5 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
S00003 (FILT)	Aqueous			T. EBNE	R	07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	23.	mg/L	1.0	20	APHA 406C	07/21/95	CM		
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM		
Chemical Oxygen Demand, Dissolved	34.	mg/L	1.0	15	410.4	07/21/95	LT		
Chloride, Dissolved	98.	mg/L	1.0	1.	325.1	07/20/95	NH		
Nitrate as N, Dissolved	0.078	mg/L	1.0	0.050	353.2	07/31/95	BC		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT		
Nitrogen-Ammonia as N, Dissolved	4.4	mg/L	1.0	0.05	350.2	07/25/95	NH	1	
Organic Carbon, Dissolved (DOC)	9.7	mg/L	1.0	1.0	415.1	07/25/95	BC		
Phosphate Ortho as P, Dissolved	0.02	mg/L	1.0	0.02	365.2	07/20/95	NH		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2	
Solids-Filt Residue, Dissolved	250.	mg/L	1.0	10	160.1	07/21/95	JF	3	
Sulfate, Dissolved	6.	mg/L	1.0	1	300.0	07/21/95	NH		
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/:	/10/95	0
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LIO)/ejngtop(dw)/pph	0
	, oj. 3-5 (m., 1, 55	0
<u>.</u>	: BCM	_
u.		8
	ATIN:RICK SACKS	
	OLIN (TN)	
	ATIN: STEVE MORROW	

⁽¹⁾ Sample Preparation on 07/25/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CIM

⁽³⁾ Sample Preparation on 07/20/95 by JF



CLIENT: DON CAMERON

OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

Lab Number : WL-1098-6 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY			ED BY	SAMPLED DATE RECEIVED				
S00004 (FILT)		Aqueous			NER	07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2	
Barium, Dissolved	0.065	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Calcium, Dissolved	14.	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3	
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN		
Iron, Dissolved	0.98	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2	
Magnesium, Dissolved	1.6	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1	
Manganese, Dissolved	0.34	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Potassium, Dissolved	0.90	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1	
Silicon, Dissolved	9.1	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	4	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95	_
LJO/ejngbp (dw)	
1G231CW1	
	
CC: BOM	
ATIN:RICK SACKS	
OLIN (TN)	
ATIN: STEVE MORROW	

⁽¹⁾ Sample Preparation on 07/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽⁴⁾ Sample Preparation on 07/25/95 by VM using 3010



Lab Number: WL-1098-6

PO No.

Report Date: 08/10/95 : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET

CLIENT: DON CAMERON

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	ON MATRIX SAMPLED BY		SAMPLED DATE RECEIVED						
S00004 (FILT)		Aqueous			T. EBNER		5	07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Sodium, Dissolved	56.	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw) LG23ICW1 CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATIN: STEVE MORROW

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Lab Number : WL-1098-6 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M2	TRIX	SAMPLED	ВУ	SAMPLED DATE RECEIVED			
S00004 (FILT)	Ac	Aqueous T. ERNER			07/19/9	07/19/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCCC3	35.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bramide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	07/21/95	LT	
Chloride, Dissolved	91.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	0.14	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	14	mg/L	1.0	0.5	350.2	07/26/95	NH	1
Organic Carbon, Dissolved (DOC)	2.6	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	230.	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	38.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	МН	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw) /pph

CC: BCM
ATTN:RICK SACKS
OLIN(TN)
ATTN:STEVE MORROW

⁽¹⁾ Sample Preparation on 07/26/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CLM

⁽³⁾ Sample Preparation on 07/20/95 by JF



Lab Number: WL-1098-7 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY			D BY SAMPLED DAT			E RECEIVED	
S00005 (FILT)		Aqueous		T. EB	T. EBNER		07/19/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	0.65	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2	
Barium, Dissolved	0.013	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Calcium, Dissolved	88.	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1	
Chromium, Dissolved	0.088	mg/L	1.0	ა.015	200.7/6010	07/25/95	KW	1	
Chromium, Hexavalent Dissolved	0.35	mg/L	1.0	0.015	6010	07/20/95	KW	3	
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	4	
Iron, Dissolved	9.2	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2	
Magnesium, Dissolved	3.6	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1	
Manganese, Dissolved	0.71	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Potassium, Dissolved	2.5	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

IJO/ejngbp(dw) IG23ICWI CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW

⁽¹⁾ Sample Preparation on 07/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽⁴⁾ Please refer to cover letter\ case narrative for additional information concerning this sample result.



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1098-7 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION MATRIX		SAMPL	ED BY	SAMPLED DATE RECEIVED					
S00005 (FILT)		Aqueous T.		T. EB	NER	07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Silicon, Dissolved Sodium, Dissolved	7.4 34.	mg/L mg/L	2.0 1.0		-	07/28/95 07/25/95		_	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LIJO/ejnghp (dw)

LG25W1

CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW

⁽¹⁾ Sample Preparation on 07/25/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3010



Lab Number: WL-1098-7

Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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PLE DESCRIPTION MATRIX SAMPLED BY				PY	SAMPLED DATE RECEIVED			
S00005 (FILT)	Ac	Aqueous			R	07/19/95		07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	17.	mg/L	1.0	15	410.4	07/21/95	LT	
Chloride, Dissolved	36.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	0.056	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	39	mg/L	1.0	0.1	350.2	07/26/95	NH	1
Organic Carbon, Dissolved (DOC)	4.7	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.05	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	590.	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	370.	mg/L	1.0	5.	300.0	07/24/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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LJO/ejngbp (dw) /pph	0
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CC: BCM	45
ATTN:RICK SACKS	
OLIN (TN)	

ATIN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/26/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CIM

⁽³⁾ Sample Preparation on 07/20/95 by JF



Lab Number: WL-1098-8 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPL	SAMPLED BY		SAMPLED DATE RECEIVED		
S00006 (FILT)		Aqueous			NER ·	07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	0.32	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2	
Barium, Dissolved	0.014	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Calcium, Dissolved	380	mg/L	5.0	0.050	200.7/6010	07/25/95	KW	1	
Chromium, Dissolved	0.023	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3	
Chromium, Trivalent	0.023	mg/L	1.0	0.015	Calculation	08/08/95	DN		
Iron, Dissolved	6.7	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1	
Lead, Dissolved	<0.025	mg/L	5.0	0.005	239.2/7421	07/26/95	KW	2,4	
Magnesium, Dissolved	13.	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1	
Manganese, Dissolved	1.2	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Potassium, Dissolved	6.1	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp(dw)/kew LG231CW1 CC: BCM ATIN:RICK SACKS OLIN(TN)

ATIN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽⁴⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.



Lab Number : WL-1098-8
Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	ATE	RECEIVED
S00006 (FILT)		Aqueous		T. EBNER		07/19/ 95 07/19/ 95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved Sodium, Dissolved	4.2 320	mg/L mg/L	1.0 5.0		200.7/6010 200.7/6010			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

ATTN:RICK SACKS
OLIN (TN)

CC: BCM

ATTN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/25/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3010



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-1098-8 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 25 of 81

SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
S00006 (FILT)	Aqueous T. EBNER			R	07/19/9	5	07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	ву	NOTES
Bicarbonate, Dissolved as HCO3	230.	mg/L	1.0	20	APHA 406C	07/21/95	CM	· · · · · · · · · · · · · · · · · · ·
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	63.	mg/L	1.0	15	410.4	07/21/95	LT	
Chloride, Dissolved	240.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	8.5	mg/L	10	0.050	353.2	07/25/95	BC	
Nitrite as N, Dissolved	0.063	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	310	mg/L	1.0	1	350.2	07/26/95	NH	1
Organic Carbon, Dissolved (DOC)	20.	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	3000.	mg/L	2.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	2000.	mg/L	1.0	20.	300.0	07/24/95	NH	
Sulfide, Dissolved	2.	mg/L	1.0	1	376.1	07/21/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95	0
LJO/ejngbp(dw)/pph	0 0
	0
CC: BOM ATTN:RICK SACKS	2 7
OLIN (TN) ATTN:STEVE MORROW	

⁽¹⁾ Sample Preparation on 07/26/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CLM

⁽³⁾ Sample Preparation on 07/20/95 by JF



Lab Number : WL-1098-9 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 26 of 81

SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	SAMPLED DATE RECEIVED		
S00007 (FILT)		Aqueous			NER	07/19/9	07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.044	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2
Barium, Dissolved	0.009	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	61.	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	13.	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Manganese, Dissolved	1.5	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	6.2	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1
Silicon, Dissolved	6.3	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	4

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

ATIN:RICK SACKS
OLIN(TN)
ATIN:STEVE MORROW

720 - 240 County Road #5 An Equal Opportunity Employer

⁽¹⁾ Sample Preparation on 07/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽⁴⁾ Sample Preparation on 07/25/95 by VM using 3010



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-1098-9 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 27 of 81

SAMPLE DESCRIPTION	1	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
S00007 (FILT)		Aqueous		T. EBNER		95	07/19/95		
PARAMETER	RESULT	UNITS DE	*PQL	METHOD	ANALYZED	BY	NOTES		
Sodium, Dissolved	170	mg/L 5.0	0.10	200.7/6010	07/25/95	KW	1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp(dw)/kew LG23ICW1 CC: BCM ATIN:RICK SACKS OLIN(TN) ATIN:SIEVE MORROW 0000



Lab Number : WL-1098-9 Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 28 of 81

SAMPLE DESCRIPTION	M2	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED		
S00007 (FILIT)	Aqueous T. EBNER		07/19/95		07/19/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCCC3	43.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	1.	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCC3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	140.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	5.4	mg/L	10	0.050	353.2	07/25/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	86	mg/L	1.0	3	350.2	07/27/95	NH	1
Organic Carbon, Dissolved (DOC)	2.9	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	900.	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	560.	mg/L	1.0	10.	300.0	07/24/95	NH	
Sulfide, Dissolved	2.	mg/L	1.0	1	376.1	07/21/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJTO/ejnghp (dw) /pph

CC: BCM

ATTN:RICK SACKS

CLIN (TN)

ATTN:STEVE MORROW

⁽¹⁾ Sample Preparation on 07/27/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CLM

⁽³⁾ Sample Preparation on 07/20/95 by JF



Lab Number: WL-1098-10 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 29 of 81

SAMPLE DESCRIPTION	MATRIX			SAMPL	SAMPLED BY		SAMPLED DATE RECEIVED			
S00008 (FILT)	Aqueous		T. EBNER		07/19/95		07/19/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Dissolved	0.51	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1		
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2		
Barium, Dissolved	0.007	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1		
Calcium, Dissolved	64 .	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1		
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1		
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3		
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN			
Iron, Dissolved	2.8	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1		
Lead, Dissolved	<0.010	mg/L	2.0	0.005	239.2/7421	07/26/95	KW	2,4		
Magnesium, Dissolved	15 .	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1		
Manganese, Dissolved	5.9	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1		
Potassium, Dissolved	6.2	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

0003

 \Box

LJO/ejnejn/kew IG23ICW1 CC: BCM

ATTIN: RICK SACKS

OLIN (TN)

ATTN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽⁴⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-1098-10 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPL	Ya 03	SAMPLED DATE RECEIVE		
S00008 (FILT)	Aqueous			T. EB	NER .	07/19/95 07/19/9		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved Sodium, Dissolved	6.7 210	mg/L	2.0 5.0		200.7/6010 200.7/6010			1 2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejnejn/kew LG25Wl CC: BCM ATIN:RICK SACKS

ATIN:RICK SACKS
CLIN(TN)

ATTN:STEVE MORROW

⁽¹⁾ Sample Preparation on 07/25/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3010



Lab Number : WL-1098-10 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	TRIX	SAMPLED BY			SAMPLED DATE RECEIVED		
S00008 (FILT)	Aqueous T. EBNER		07/19/95		07/19/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	46.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	1.	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCC3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	180.	mg/L	1.0	1.	325.1	07/20/95	MH	
Nitrate as N, Dissolved	0.42	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	180	mg/L	1.0	3	350.2	07/27/95	NH	1
Organic Carbon, Dissolved (DOC)	3.3	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	1300.	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	900.	mg/L	1.0	10.	300.0	07/24/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw) /pph

CC: BCM

ATTN: RICK SACKS

OLIN (TN)

ATIN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/27/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CLM

⁽³⁾ Sample Preparation on 07/20/95 by JF



Lab Number : WL-1098-11

PO No. : SE-CH-827-VAR-C

Report Date: 08/10/95

OLIN CHEMICALS 51 EAMES STREET

CLIENT: DON CAMERON

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 32 of 81

SAMPLE DESCRIPTION		MATRIX SAMI			ED BY	SAMPLED DATE RECEIVED			
S00009 (FILT)		Aqueous		T. EBNER		07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	5.8	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2	
Barium, Dissolved	0.039	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Calcium, Dissolved	52.	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3	
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN		
Iron, Dissolved	1.3	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2	
Magnesium, Dissolved	9.7	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1	
Manganese, Dissolved	0.97	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Potassium, Dissolved	2.5	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1	
Silicon, Dissolved	8.8	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	4	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) Sample Preparation on 07/23/95 by VM using 3010
- (2) Sample Preparation on 07/23/95 by VM using 3020
- (3) Sample Preparation on 07/19/95 by KAW using 7195
- (4) Sample Preparation on 07/25/95 by VM using 3010

08/10/95

LJO/ejngbp (dw) \Box LG23ICW1 0 CC: BOM \Box ATTN:RICK SACKS OLIN (TN) **—** ATTN: STEVE MORROW

P.O. Box 720 - 340 County Road #5

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Lab Number : WL-1098-11 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 33 of 81

SAMPLE DESCRIPTION		MATRIX SAMPLED BY			SAMPLED DATE RECRIVED			
S00009 (FILT)		Aqueous T. EBNER		NER	07/19/95 07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	50.	mg/L 1	.0	0.10	200.7/6010	07/25/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw) LG23ICW1 CC: BCM

> ATTN:RICK SACKS OLIN (TN)

ATTN:STEVE MORROW

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Lab Number : WL-1098-11 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 34 of 81

SAMPLE DESCRIPTION	MA	TRIX		SAMPLED	BY	SAMPLED DATE RECE		
S00009 (FILT)	Ac	Aqueous T. ERNER		07/19/95		07/19/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	58.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	4.4	mg/L	10	0.050	353.2	07/25/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	11	mg/L	1.0	0.3	350.2	07/27/95	NH	1
Organic Carbon, Dissolved (DOC)	2.9	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.05	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	430.	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	180.	mg/L	1.0	4.	300.0	07/24/95	NH	
Sulfide, Dissolved	2.	mg/L	1.0	1	376.1	07/21/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw) /pph

CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW

⁽¹⁾ Sample Preparation on 07/27/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CLM

⁽³⁾ Sample Preparation on 07/20/95 by JF



Lab Number: WL-1098-12 Report Date: 08/10/95

PO No. : SB-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 35 of 81

SAMPLE DESCRIPTION	MATRIX SAMPLED BY				ED BY	SAMPLED D	RECEIVED	
S00010 (FILT)		Aqueous		T. EB	NER	07/19/9	07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2
Barium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	0.053	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Discolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	60 10	07/20/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	<0.050	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Manganese, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	<0.50	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1
Silicon, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	4

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp(dw)/kew LG23ICWl

CC: BOM

ATTN:RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW

00003-

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098

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⁽¹⁾ Sample Preparation on 07/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽⁴⁾ Sample Preparation on 07/25/95 by VM using 3010



Lab Number : WL-1098-12

Report Date: 08/10/95

OLIN CHEMICALS

CLIENT: DON CAMERON

PO No.

: SE-CH-827-VAR-C

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	ATRIX	SAMPLED BY	SAMPLED D	SAMPLED DATE		
S00010 (FILT)	A	Aqueous		07/19/9	5	07/19/95	
PARAMETER	RESULT	UNITS DF	*PQL METHOD	ANALYZED	BY	NOTES	
Sodium, Dissolved	<0.10	mg/L 1.0	0.10 200.7/601	07/25/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp(dw)/kew LG23ICW1 CC: BCM ATTIN: RICK SACKS OLIN (TN) ATTN:STEVE MORROW



Lab Number : WL-1098-12 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 37 of 81

SAMPLE DESCRIPTION	M2	MATRIX SAMPLED BY				SAMPLED D	RECEIVED		
S00010 (FILT)	Aqueous T. El			T. EBNE	R	07/19/9	5	07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM		
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM		
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	07/24/95	LT		
Chloride, Dissolved	<1	mg/L	1.0	1.	325.1	07/20/95	NH		
Nitrate as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/31/95	BC		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT		
Nitrogen-Ammonia as N, Dissolved	0.11	mg/L	1.0	0.05	350.2	07/25/95	NH	1	
Organic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	07/25/95	BC		
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2	
Solids-Filt Residue, Dissolved	<10	mg/L	1.0	10	160.1	07/21/95	JF	3	
Sulfate, Dissolved	4	mg/L	1.0	1	300.0	07/21/95	NH		
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw) /pph

CC: BOM

ATIN:RICK SACKS
OLIN(TN)

ATIN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/25/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CLM

⁽³⁾ Sample Preparation on 07/20/95 by JF



Lab Number : WL-1098-13
Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	RECEIVED	
S00001 (UNFILIT)		Aqueous T. EBNER		07/19/95		07/19/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent Chromium, Total Chromium, Trivalent	<0.015 0.021 0.021	mg/L mg/L mg/L	1.0 1.0 1.0		6010 200.7/6010 Calculation	07/20/95 07/25/95 08/08/95	KW	1 2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp(dw) LG19WCR1 CC: BCM

ATIN: RICK SACKS

OLIN (TN)

ATIN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3010



CLIENT: DON CAMERON

Lab Number : WL-1098-14

Report Date: 08/10/95

OLIN CHEMICALS

PO No.

: SE-CH-827-VAR-C

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATY	RIX	SAMPL	ed by	SAMPLED D	RECEIVED		
S00001 (UNFILT/MS)	Aque	eous	T. EB	NER	07/19/95		07/19/95	
PARAMETER	RESULT UN	rrs df	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Hexavalent Chromium, Total Chromium, Trivalent	2.47 mg, 0.253 mg, Not Appl. mg,	/L 1.0		6010 200.7/6010 Calculation		KW	1 2 3	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) Sample Preparation on 07/19/95 by KAW using 7195
- (2) Sample Preparation on 07/25/95 by VM using 3010
- (3) This is a calculation and is not applicable to a matrix spike.

08/10/95

LJO/ejnejn LG19WCR1

CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW



Lab Number : WL-1098-15 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS

51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	RECEIVED	
S00001 (UNFILIT/DUP)		Aqueous		T. EB	07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent Chromium, Total Chromium, Trivalent	<0.015 0.020 0.020	mg/L mg/L mg/L	1.0 1.0 1.0		6010 200.7/6010 Calculation	07/20/95 07/25/95 08/08/95	KW	1 2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw)

LG19WCR1

CC: BCM

ATIN:RICK SACKS

CLIN (TN)

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400 FAX: 207-775-4029

ATIN: STEVE MORROW

An Equal Opportunity Employer

⁽¹⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3010



Lab Number : WL-1098-16

Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	D BY	SAMPLED D	RECEIVED		
S00002 (UNFILIT)		Aqueous	}	T. EB	VER	07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Hexavalent Chromium, Total	<0.015 0.054	mg/L mg/L	1.0	0.015 0.015	6010 200.7/6010	07/20/95 07/25/95		1 2	
Chromium, Trivalent	0.054	mg/L	1.0	0.015	Calculation	08/08/95	DN		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) Sample Preparation on 07/19/95 by KAW using 7195
- (2) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp(dw) LG19WCR1

CC: BCM

ATTIN: RICK SACKS

OLIN (TN)

ATTN: STEVE MORROW

000043

An Equal Opportunity Employer



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-17 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	1	MATRIX SAMPLED BY				SAMPLED D	RECEIVED	
S00003 (UNFILIT)		Aqueous		T. EB	07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent Chromium, Total Chromium, Trivalent	<0.015 <0.015 <0.015	mg/L mg/L mg/L	1.0 1.0 1.0		6010 200.7/6010 Calculation	07/20/95 07/25/95 08/08/95	KW	1 2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LIJO/ejnghp (dw)

IG19WCR1

CC: BCM

ATTN:RICK SACKS

CLIN (TN)

ATTN:STEVE MORROW

⁽¹⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3010



Lab Number : WL-1098-18 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPLED BY SAMPLED DATE RECE				
S00004 (UNFILT)		Aqueous T. EBNER				07/19/95		07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent Chromium, Total Chromium, Trivalent	<0.015 <0.015 <0.015	mg/L mg/L mg/L	1.0 1.0 1.0		6010 200.7/6010 Calculation	07/20/95 07/25/95 08/08/95	KW	1 2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngtp (dw)

LG19WCR1

CC: BCM

ATTN:RICK SACKS

CLIN (TN)

ATIN:STEVE MORROW

⁽¹⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3010



Lab Number : WL-1098-19 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED DATE RECEIVE		
S00005 (DNFILT)		Aqueous T. EBNE			NER	07/19/95 07		07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent Chromium, Total Chromium, Trivalent	1.1 0.37 <0.015	mg/L mg/L	1.0 1.0 1.0		6010 200.7/6010 Calculation	07/20/95 07/25/95 08/08/95	KW	1 2 3

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) Sample Preparation on 07/19/95 by KAW using 7195
- (2) Sample Preparation on 07/23/95 by VM using 3010
- (3) Please refer to cover letter\ case narrative for additional information concerning this sample result.

08/10/95

LIJO/ejnejn

LIG19WCR1

CC: BCM

ATIN:RICK SACKS

OLIN (IN)

ATIN:STEVE MORROW



CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1098-20 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	RECEIVED		
S00006 (UNFILIT)		Aqueous T. EBNER				07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Hexavalent Chromium, Total Chromium, Trivalent	<0.015 0.015 0.015	mg/L mg/L mg/L	1.0 1.0 1.0			07/20/95 07/25/95 08/08/95	KW	1 2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95	
LJO/ejngbp (dw)	0
IG19WCR1	4=
CC: BOM	
ATTN:RICK SACKS	
OLIN (TN)	

ATIN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽²⁾ Sample Preparation on 07/23/95 by VM using 3010



Lab Number : WL-1098-21 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESC	RIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	ATE	RECEIVED
S00007 (UNF	TLT)		Aqueous	· .	T. EB	NER	07/19/9	5	07/19/95
PARAMETER		RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, H Chromium, T Chromium, T	otal	<0.015 <0.015 <0.015	٠	1.0 1.0 1.0		6010 200.7/6010 Calculation	07/20/95 07/25/95 08/08/95	KW	1 2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw) LG19WCR2

CC: BOM

ATIN:RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW

⁽¹⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽²⁾ Sample Preparation on 07/24/95 by VM using 3010



Lab Number : WL-1098-22 Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX			ED BY	SAMPLED DATE RECEIVED			
S00008 (UNFILT)	Aqueous		T. EBNER		07/19/95		07/19/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Hexavalent Chromium, Total Chromium, Trivalent	<0.015 <0.015 <0.015	mg/L mg/L	1.0 1.0 1.0			07/20/95 07/25/95 08/08/95	KW	1 2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw) LG19WCR2 CC: BOM

ATTIN: RICK SACKS

OLIN (TN)

ATTIN: STEVE MORROW

 \Box **₹** 9

⁽¹⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽²⁾ Sample Preparation on 07/24/95 by VM using 3010



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1098-23 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	1	MATRIX			ED BY	SAMPLED DATE RECRIVED			
S00009 (UNFILT)		Aqueous			VER	07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chromium, Hexavalent Chromium, Total Chromium, Trivalent	<0.015 <0.015 <0.015	mg/L mg/L mg/L	1.0 1.0 1.0		6010 200.7/6010 Calculation	07/20/95 07/25/95 08/08/95	KW	1 2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95	0
LJO/ejngtop (dw)	0
LG19WCR2	0
CC: BCM	S
ATTN:RICK SACKS	0
CLIN (TN)	
ATIN: STEVE MORROW	

⁽¹⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽²⁾ Sample Preparation on 07/24/95 by VM using 3010



Lab Number : WL-1098-25 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY			ED BY	SAMPLED DATE RECEIVED			
S00011 (FILT)		Aqueous		T. EB	NER	07/19/9	5	07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.22	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Dissolved	0.023	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	28	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	1.2	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	3.7	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
Manganese, Dissolved	0.26	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	2.4	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
Silicon, Dissolved	0.92	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Dissolved	160	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngtp (dw) /kew

CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATTN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/24/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/24/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195



Lab Number : WL-1098-25 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	TRIX		SAMPLED	ВУ	SAMPLED D	RECEIVED	
S00011 (FILT)	Aq	Aqueous		T. EBNE	07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	82.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	24 .	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	190.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	0.46	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	1.3	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Organic Carbon, Dissolved (DOC)	6.9	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	470.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate, Dissolved	52.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp(dw)/pph

000

CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATIN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/25/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CIM

⁽³⁾ Sample Preparation on 07/21/95 by JF



Lab Number : WL-1098-26 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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MATRIX			SAMPLI	ED BY	SAMPLED D	RECEIVED	
Aqueous		T. EBI	T. EBNER		5	07/19/95	
RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
0.043	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
130	mg/L	2.0	0.050	200.7/6010	07/26/95	KW	1
<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
0.48	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
8.5	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
0.38	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
3.0	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
6.6	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	1
130	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1
	<pre></pre>	Aqueous RESULT UNITS <0.10 mg/L <0.005 mg/L 0.043 mg/L 130 mg/L <0.015 mg/L <0.015 mg/L <0.015 mg/L <0.015 mg/L 0.48 mg/L <0.005 mg/L 0.48 mg/L 0.38 mg/L 0.38 mg/L 0.38 mg/L 0.38 mg/L 0.38 mg/L	Aqueous	Aqueous T. ERI	Aqueous T. ERNER	Aqueous T. EBNER 07/19/9	RESULT UNITS DF *PQL METHOD MALLYZED BY

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp(dw)/kew LG24ICWl

CC: BOM

ATTIN:RICK SACKS

OLIN (TN)

AT'IN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/24/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/24/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1098-26 Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

Page 52 of 81

SAMPLE DESCRIPTION	MP	TRIX		SAMPLED	BY	SAMPLED D	ATE	RECEIVED	
S00012 (FILT)	Aqueous			T. EBNE	07/19/95		07/19/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCCC3	260.	mg/L	1.0	20	APHA 406C	07/21/95	CM		
Bromide, Dissolved	1.	mg/L	1.0	1.	300.0	07/21/95	NH		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM		
Chemical Oxygen Demand, Dissolved	34.	mg/L	1.0	15	410.4	07/24/95	LT		
Chloride, Dissolved	150.	mg/L	1.0	1.	325.1	07/20/95	NH		
Nitrate as N, Dissolved	0.68	mg/L	1.0	0.050	353.2	07/31/95	BC		
Nitrite as N, Dissolved	0.056	mg/L	1.0	0.050	353.2	07/21/95	LT		
Nitrogen-Ammonia as N, Dissolved	150	mg/L	1.0	3	350.2	07/27/95	NH	1	
Organic Carbon, Dissolved (DOC)	12.	mg/L	1.0	1.0	415.1	07/25/95	BC		
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365. 4	07/28/95	BC	2	
Solids-Filt Residue, Dissolved	1100.	mg/L	1.0	10	160.1	07/24/95	JF	3	
Sulfate, Dissolved	650.	mg/L	1.0	10.	300.0	07/24/95	NH		
Sulfide, Dissolved	2.	mg/L	1.0	1	376.1	07/21/95	NH		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp(dw)/pph

CC: BOM

ATIN:RICK SACKS

OLIN (TN)

ATIN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/27/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CLM

⁽³⁾ Sample Preparation on 07/21/95 by JF



Lab Number: WL-1098-27 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 53 of 81

SAMPLE DESCRIPTION	MATRIX			SAMPLED BY		SAMPLED D	ATE	RECEIVED	
S00013 (FILT)	Aqueous		· · · · · · · · · · · · · · · · · · ·	T. EB	NER	07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2	
Barium, Dissolved	0.024	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Calcium, Dissolved	280	mg/L	5.0	0.050	200.7/6010	07/26/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN		
Iron, Dissolved	0.14	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2	
Magnesium, Dissolved	5.7	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1	
Manganese, Dissolved	0.14	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Potassium, Dissolved	2.9	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1	
Silicon, Dissolved	1.5	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1	
Sodium, Dissolved	90	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw) /kew LG241CWl

CC: BCM

ATIN: RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW

00055

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400 FAX: 207-775-4029 An Equal Opportunity Employer

⁽¹⁾ Sample Preparation on 07/24/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/24/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195



Lab Number : WL-1098-27 Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 54 of 81

SAMPLE DESCRIPTION	MATRIX SAMPLED BY					SAMPLED D	RECEIVED	
S00013 (FILT)	Aqueous T. EBN			T. EBNE	BNER 07/1			07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	37.	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	82.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	2.3	mg/L	2.0	0.050	353.2	07/25/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	72	mg/L	1.0	1	350.2	07/27/95	NH	1
Organic Carbon, Dissolved (DOC)	9.7	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	1400.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate, Dissolved	990.	mg/L	1.0	10.	300.0	07/24/95	NH	
Sulfide, Dissolved	9.	mg/L	1.0	1	376.1	07/21/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngtp (dw)/pph

CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATTN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/27/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CLM

⁽³⁾ Sample Preparation on 07/21/95 by JF



Lab Number : WL-1098-28 Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 55 of 81

SAMPLE DESCRIPTION	MATRIX			SAMPL	SAMPLED BY		ATE	RECEIVED	
S00014 (FILT)		Aqueous		T. EB	T. EBNER		5	07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2	
Barium, Dissolved	0.019	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Calcium, Dissolved	37	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN		
Iron, Dissolved	0.35	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2	
Magnesium, Dissolved	3.2	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1	
Manganese, Dissolved	0.086	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Potassium, Dissolved	2.5	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1	
Silicon, Dissolved	1.7	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1	
Sodium, Dissolved	150	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

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LJO/ejngbp (dw) /kew LG24ICW1

CC: BCM

ATTN: RICK SACKS

OLIN (TN)

FAX: 207-775-4029

ATTN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/24/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/24/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195



Lab Number : WL-1098-28 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 56 of 81

SAMPLE DESCRIPTION	MATRIX SAMPLED BY					SAMPLED DATE RECEIVED		
S00014 (FILT)	Aqueous T. EBNER			07/19/95		07/19/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCC3	99.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	1 9.	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	180.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	1.8	mg/L	2.0	0.050	353.2	07/25/95	BC	
Nitrite as N, Dissolved	0.060	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	1.1	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Organic Carbon, Dissolved (DOC)	5.0	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	. 1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	470.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate, Dissolved	54.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp(dw)/pph

000

S

CC: BCM

ATIN:RICK SACKS

OLIN (TN)

ATTN: STEVE MORROW

An Equal Opportunity Employer

⁽¹⁾ Sample Preparation on 07/25/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CLM

⁽³⁾ Sample Preparation on 07/21/95 by JF



Lab Number : WL-1098-29
Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 57 of 81

SAMPLE DESCRIPTION		MATRIX			ED BY	SAMPLED D	RECEIVED	
S00015 (FILT)		Aqueous			NER	07/19/9	07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Dissolved	0.022	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	40	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	0.36	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	3.3	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
Manganese, Dissolved	0.094	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	2.4	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
Silicon, Dissolved	1.7	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Dissolved	160	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejnghp (dw) /kew LG24ICWl

CC: BCM

ATIN:RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW

⁽¹⁾ Sample Preparation on 07/24/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/24/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195



Lab Number : WL-1098-29 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 58 of 81

SAMPLE DESCRIPTION	MATRIX SAMPLED BY					SAMPLED D	RECEIVED	
S00015 (FILT)	Aqueous			T. EBNE	R	07/19/9	07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	98.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	21.	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	170.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	2.1	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N, Dissolved	0.063	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	1.1	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Organic Carbon, Dissolved (DOC)	4.7	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	460.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate, Dissolved	53.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95	0
LJO/ejngbp (dw) /pph	
CC: BCM	o ^r
ATIN:RICK SACKS	
Of TN/TN/	

ATTN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/25/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CLM

⁽³⁾ Sample Preparation on 07/21/95 by JF



Lab Number : WL-1098-30 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 59 of 81

SAMPLE DESCRIPTION		MATRIX			SAMPLED BY		SAMPLED DATE		
S00015 (FILT/MS)	Aqueous		T. EB	NER	07/19/9	5	07/19/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	2.21	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1	
Arsenic, Dissolved	0.039	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2	
Barium, Dissolved	2.16	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Calcium, Dissolved	35.5	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1	
Chromium, Dissolved	0.205	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1	
Chromium, Hexavalent Dissolved	2.27	mg/L	1.0	0.015	6010	07/20/95	KW	3	
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	08/08/95	DN	4	
Iron, Dissolved	1.34	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1	
Lead, Dissolved	0.026	mg/L	2.0	0.005	239.2/7421	07/27/95	KW	2	
Magnesium, Dissolved	7.08	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1	
Manganese, Dissolved	0.596	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Potassium, Dissolved	23.6	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1	
Silicon, Dissolved	4.34	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejnejn/kew

LG24ICW1

CC: BCM

ATTN:RICK SACKS

OLIN(TN)

ATTN:STEVE MORROW

⁽¹⁾ Sample Preparation on 07/24/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/24/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽⁴⁾ This is a calculation and is not applicable to a matrix spike.



CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1098-30 Report Date: 08/10/95

PO No. :

: SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

Page 60 of 81

SAMPLE DESCRIPTION		MATRIX	SAMPLED BY	SAMPLED DA	TE RECEIVED
S00015 (FILT/MS)		Aqueous	T. EBNER	07/19/95	07/19/95
PARAMETER	RESULT	UNITS DF	*PQL METHOD	ANALYZED	BY NOTES
Sodium, Dissolved	151	mg/L 2.0	0.10 200.7/6010	07/26/95	KW 1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 07/24/95 by VM using 3010

08/10/95

LJO/ejnejn/kew
LG24ICW1
CC: BCM
ATIN:RICK SACKS
OLIN(TN)
ATIN:STEVE MORROW

00062

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400 FAX: 207-775-4029



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-30 Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 61 of 81

SAMPLE DESCRIPTION	MA	MATRIX SAMPLED BY					ATE	RECEIVED	
S00015 (FILT/MS)	Aqueous T. El			T. EBNE	R	07/19/9	5	07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	183.	mg/L	1.0	20	APHA 406C	07/21/95	CM		
Bromide, Dissolved	10.	mg/L	1.0	1.	300.0	07/21/95	NH		
Carbonate, Dissolved as CaCO3	44.2	mg/L	1.0	20	APHA 406C	07/21/95	CM		
Chemical Oxygen Demand, Dissolved	82.5	mg/L	1.0	15	410.4	07/24/95	LT		
Chloride, Dissolved	220.	mg/L	1.0	1.	325.1	07/20/95	NH		
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.050	353.2	07/25/95	BC	1	
Nitrite as N, Dissolved	0.491	mg/L	1.0	0.050	353.2	07/21/95	LT		
Nitrogen-Ammonia as N, Dissolved	2.1	mg/L	1.0	0.05	350.2	07/25/95	NH	2	
Organic Carbon, Dissolved (DOC)	43.5	mg/L	1.0	1.0	415.1	07/25/95	BC		
Phosphate Ortho as P, Dissolved	0.51	mg/L	1.0	0.02	365.2	07/20/95	NH		
Phosphorus, Dissolved as P	0.714	mg/L	1.0	0.10	365.4	07/28/95	BC	3	
Solids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	07/24/95	JF	4,5	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp(dw)/pph

9008

CC: BOM

ATTIN: RICK SACKS

OLIN (TN)

ATIN: STEVE MORROW

⁽¹⁾ NA=This is a calculation and is not applicable to a matrix spike.

⁽²⁾ Sample Preparation on 07/25/95 by NH using 350.2

⁽³⁾ Sample Preparation on 07/27/95 by CLM

⁽⁴⁾ Sample Preparation on 07/21/95 by JF

⁽⁵⁾ NA=Matrix spike analysis is not applicable for this parameter.



Lab Number : WL-1098-30

: SE-CH-827-VAR-C

PO No.

Report Date: 08/10/95

OLIN CHEMICALS

CLIENT: DON CAMERON

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 62 of 81

SAMPLE DESCRIPTION	MA				BY	SAMPLED DATE RECEIV		
S00015 (FILIT/MS)	Ас				EIR	07/19/95		07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfate, Dissolved Sulfide, Dissolved	61. 37.	mg/L mg/L	1.0		1 300.0 1 376.1	07/21/95 07/21/95		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw) /pph

CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATTN: STEVE MORROW

 \circ F



Lab Number : WL-1098-31

Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMRS STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 63 of 81

SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	SAMPLED D	E RECRIVED		
S00015 (FILT/DUP)		Aqueous		T. EB	T. EBNER		5	07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	<0.100	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2	
Barium, Dissolved	0.020	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Calcium, Dissolved	39.0	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN		
Iron, Dissolved	0.365	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2	
Magnesium, Dissolved	3.17	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1	
Manganese, Dissolved	0.090	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Potassium, Dissolved	2.15	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1	
Silicon, Dissolved	1.63	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1	
Sodium, Dissolved	142	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejnejn/kew LG24ICW1

CC: BCM

ATIN:RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW

 \Box \Box 0

An Equal Opportunity Employer

⁽¹⁾ Sample Preparation on 07/24/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/24/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195



Lab Number : WL-1098-31 Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 64 of 81

SAMPLE DESCRIPTION	MA	MATRIX SAMPLED BY				SAMPLED D	RECRIVED	
S00015 (FILIT/DOP)	Ac	Aqueous T. EBNER		07/19/95		07/19/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	96.6	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bramide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	15.0	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	170.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	1.68	mg/L	2.0	0.050	353.2	07/25/95	BC	
Nitrite as N, Dissolved	0.064	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	1.1	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Organic Carbon, Dissolved (DOC)	4.76	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.100	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	484	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate, Dissolved	53.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngtp (dw) /pph

CC: BCM
ATIN:RICK SACKS
CLIN (TN)
ATIN:SIEVE MORROW

⁽¹⁾ Sample Preparation on 07/25/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CIM

⁽³⁾ Sample Preparation on 07/21/95 by JF



Lab Number : WL-1098-32 Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 65 of 81

SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	SAMPLED D	RECEIVED	
S00011 (UNFILT)	Aqueous			T. EB	NER	07/19/9	5	07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Total	0.028	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Total	33	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Total	1.1	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	07/27/95	KW	2
Magnesium, Total	3.4	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
Manganese, Total	0.29	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Total	2.3	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
Silicon, Total	0.89	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Total	150	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp(dw)/kew LG24ICWl

CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW

190000

TEL: 207-874-2400 FAX: 207-775-4029

⁽¹⁾ Sample Preparation on 07/24/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/24/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-32
Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 66 of 81

SAMPLE DESCRIPTION	M	MATRIX SAMPLED BY					SAMPLED DATE RECEIVE		
S00011 (UNFILT)	Ac	Aqueous			T. EBNER			07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate as HCC3	80.	mg/L	1.0	20	APHA 406C	07/21/95	CM		
Bromide	<1	mg/L	1.0	1.	300.0	07/21/95	NH		
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM		
Chemical Oxygen Demand	27.	mg/L	1.0	15	410.4	07/24/95	LT		
Chloride	190.	mg/L	1.0	1.	325.1	07/20/95	NH		
Nitrate as N	0.22	mg/L	1.0	0.050	353.2	07/31/95	BC		
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT		
Nitrogen-Ammonia as N	1.4	mg/L	1.0	0.05	350.2	07/25/95	NH	1	
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH		
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2	
Solids - Filterable Residue (TDS)	470.	mg/L	1.0	10	160.1	07/24/95	JF	3	
Sulfate	51.	mg/L	1.0	1	300.0	07/21/95	NH		
Sulfide	1.	mg/L	1.0	1	376.1	07/21/95	NH		
Total Organic Carbon (TOC)	6.9	mg/L	1.0	1.0	415.1	07/25/95	BC		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw)

CC: BOM

ATTN:RICK SACKS

OLIN (TN)

FAX: 207-775-4029

ATIN: STEVE MORROW

000058

An Equal Opportunity Employer

⁽¹⁾ Sample Preparation on 07/25/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CLM

⁽³⁾ Sample Preparation on 07/21/95 by JF



Lab Number : WL-1098-33 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 67 of 81

SAMPLE DESCRIPTION	MATRIX SAMPLED BY				ed by	SAMPLED DATE RECEIVED			
S00012 (UNFILT)	Aqueous		T. EBNER		07/19/95		07/19/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1	
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2	
Barium, Total	0.056	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Calcium, Total	140	mg/L	2.0	0.050	200.7/6010	07/26/95	KW	1	
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1	
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN		
Iron, Total	0.65	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1	
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	07/27/95	KW	2	
Magnesium, Total	8.7	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1	
Manganese, Total	0.48	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Potassium, Total	3.5	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1	
Silicon, Total	6.7	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	1	
Sodium, Total	140	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw) /kew
LG241CWL
CC: BCM
ATTN:RICK SACKS

OLIN (TN)
ATIN:STEVE MORROW

⁽¹⁾ Sample Preparation on 07/24/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/24/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195



Lab Number: WL-1098-33

Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 68 of 81

SAMPLE DESCRIPTION	Aquecus		T. EBNER		SAMPLED D	ÆŒIVED		
S00012 (UNFILIT)					07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	260.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand	35.	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride	160.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N	0.63	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N	0.053	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N	150.	mg/L	1.0	3.	350.2	07/27/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	07/31/95	BC	2
Solids - Filterable Residue (TDS)	1100.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate	660.	mg/L	1.0	10.	300.0	07/24/95	NH	
Sulfide	2.	mg/L	1.0	1	376.1	07/21/95	NH	
Total Organic Carbon (TOC)	12.	mg/L	1.0	1.0	415.1	07/25/95	BC	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95	
LJO/ejngbp (dw)	
•	
CC: BCM	
ATTN:RICK SACKS	
OLIN (TN)	

ATIN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/27/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CLM

⁽³⁾ Sample Preparation on 07/21/95 by JF



Lab Number : WL-1098-34 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 69 of 81

SAMPLE DESCRIPTION		MATRIX			SAMPLED BY		SAMPLED DATE RECEIVED		
S00013 (UNFILT)		Aqueous			T. EBNER		07/19/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1	
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2	
Barium, Total	0.021	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Calcium, Total	250	mg/L	5.0	0.050	200.7/6010	07/26/95	KW	1	
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1	
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN		
Iron, Total	0.14	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1	
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	07/27/95	KW	2	
Magnesium, Total	5.0	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1	
Manganese, Total	0.12	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Potassium, Total	2.6	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1	
Silicon, Total	1.4	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1	
Sodium, Total	77	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) Sample Preparation on 07/24/95 by VM using 3010
- (2) Sample Preparation on 07/24/95 by VM using 3020
- (3) Sample Preparation on 07/19/95 by KAW using 7195

08/10/95

LJO/ejngbp (dw) /kew LG24ICWl

CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATIN: STEVE MORROW



Lab Number : WL-1098-34 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 70 of 81

SAMPLE DESCRIPTION	MA	TRIX		SAMPLED	BY	SAMPLED DATE RECEIVED		
S00013 (UNFILT)	Aq	Aqueous		T. ABNER		07/19/95		07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	ВУ	NOTES
Bicarbonate as HCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand	36 .	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride	82 .	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N	2.2	mg/L	2.0	0.050	353.2	07/25/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353. 2	07/21/95	LT	
Nitrogen-Ammonia as N	77.	mg/L	1.0	3.	350.2	07/27/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365 .2	07/20/95	NH	
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	07/31/95	BC	2
Solids - Filterable Residue (TDS)	1400.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate	950.	mg/L	1.0	10.	300.0	07/24/95	NH	
Sulfide	<1	mg/L	1.0	1	376.1	07/21/95	NH	
Total Organic Carbon (TOC)	10.	mg/L	1.0	1.0	415.1	07/25/95	BC	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw)

CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW

10000

⁽¹⁾ Sample Preparation on 07/27/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CIM

⁽³⁾ Sample Preparation on 07/21/95 by JF



Lab Number : WL-1098-35 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 71 of 81

SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED DATE		RECEIVED		
S00014 (UNFILIT)		Aqueous		T. EB	T. EBNER		5	07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	WEITHOO	ANALYZED	BY	NOTES	
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1	
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2	
Barium, Total	0.021	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Calcium, Total	34	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1	
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1	
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN		
Iron, Total	0.29	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1	
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	07/27/95	KW	2	
Magnesium, Total	2.8	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1	
Manganese, Total	0.078	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Potassium, Total	1.9	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1	
Silicon, Total	1.6	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1	
Sodium, Total	140	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LTO/ejngbp(dw)/kew IG24ICWl

CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW

00007

⁽¹⁾ Sample Preparation on 07/24/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/24/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195



Lab Number : WL-1098-35 Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 72 of 81

SAMPLE DESCRIPTION	M	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED		
S00014 (UNFILT)	Ac	Aqueous			T. EBNER		5	07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	100.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand	18.	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride	170.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N	3.0	mg/L	2.0	0.050	353.2	07/25/ 9 5	BC	
Nitrite as N	0.059	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N	1.1	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	07/31/95	BC	2
Solids - Filterable Residue (TDS)	510.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate	54.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide	<1	mg/L	1.0	1	376.1	07/21/95	NH	
Total Organic Carbon (TOC)	5.0	mg/L	1.0	1.0	415.1	07/25/95	BC	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp(dw)

 \Box

 \circ

CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATIN: STEVE MORROW

⁽¹⁾ Sample Preparation on 07/25/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CLM

⁽³⁾ Sample Preparation on 07/21/95 by JF



Lab Number : WL-1098-36 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 73 of 81

SAMPLE DESCRIPTION	MATRIX			SAMPL	SAMPLED BY		SAMPLED DATE	
S00015 (UNFILT)	Aqueous		T. EB	T. EBNER		5	07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Total	0.022	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Total	36	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Total	0.31	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	07/27/95	KW	2
Magnesium, Total	2.9	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
Manganese, Total	0.083	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Total	2.2	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
Silicon, Total	1.6	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Total	140	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw) /kew LG241CW1

CC: BCM

ATTN:RICK SACKS

OLIN (TN)

ATIN: STEVE MORROW

000075

⁽¹⁾ Sample Preparation on 07/24/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/24/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195



Lab Number : WL-1098-36 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 74 of 81

SAMPLE DESCRIPTION	MATRIX SAMPLED BY				BY	SAMPLED DATE RECEIV		
S00015 (UNFILIT)	Ac	quecus		T. EBNER		07/19/9	5	07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	98.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand	20.	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride	170.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N	1.7	mg/L	2.0	0.050	353.2	07/25/95	BC	
Nitrite as N	0.059	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N	1.1	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	07/31/95	BC	2
Solids - Filterable Residue (TDS)	480.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate	53.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide	<1	mg/L	1.0	1	376.1	07/21/95	NH	
Total Organic Carbon (TOC)	5.0	mg/L	1.0	1.0	415.1	07/25/95	BC	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95	0
	0
LJO/ejngbp (dw)	0
	0
CC: BCM	
ATTN:RICK SACKS	6
OLIN (TN)	
ATTN:STEVE MORROW	

⁽¹⁾ Sample Preparation on 07/25/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CIM

⁽³⁾ Sample Preparation on 07/21/95 by JF



Lab Number : WL-1098-37 Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 75 of 81

SAMPLE DESCRIPTION		MATRIX			SAMPLED BY		ATE	RECEIVED	
S00015 (UNFILIT/MS)		Aqueous			T. EBNER		5	07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total	2.03	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1	
Arsenic, Total	0.042	mg/L	2.0	0.005	206.2/7060	07/27/95	KW	2	
Barium, Total	2.04	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Calcium, Total	32.8	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1	
Chromium, Hexavalent	2.64	mg/L	1.0	0.015	6010	07/20/95	KW	3	
Chromium, Total	0.179	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1	
Chromium, Trivalent	Not Appl.	mg/L	1.0	0.015	Calculation	08/08/95	DN	4	
Iron, Total	1.22	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1	
Lead, Total	<0.025	mg/L	5.0	0.005	239.2/7421	07/28/95	KW	2,5	
Magnesium, Total	6.52	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1	
Manganese, Total	0.553	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1	
Potassium, Total	22.5	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejnejn/kew IG24ICW1

CC: BOM

ATTN:RICK SACKS

OLIN (TN)

FAX: 207-775-4029

ATIN: SIEVE MORROW

P.O. Box 720 - 340 County Road #5
Westbrook, ME 04098
TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 07/24/95 by VM using 3010

⁽²⁾ Sample Preparation on 07/24/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/19/95 by KAW using 7195

⁽⁵⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽⁴⁾ This is a calculation and is not applicable to a matrix spike.



Lab Number : WL-1098-37 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 76 of 81

SAMPLE DESCRIPTION	MATRIX SAMPLED B				ED BY	SAMPLED D	ATE	RECEIVED
S00015 (UNFILIT/MS)	Aqueous		T. EBNER		07/19/95		07/19/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Total Sodium, Total	4.01 134	mg/L mg/L	1.0 2.0		200.7/ 6010 200. 7/6010			1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 07/24/95 by VM using 3010

08/10/95

LIJO/ejnejn/kew

LG24 ICWI

CC: BCM

ATTN:RICK SACKS

OLIN (IN)

ATTN:STEVE MORROW

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400 FAX: 207-775-4029 An Equal Opportunity Employer



Lab Number : WL-1098-37 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 77 of 81

SAMPLE DESCRIPTION	MATRIX SAMPLED BY					SAMPLED D	RECEIVED	
S00015 (UNFILIT/MS)	Ac	Aqueous			T. EBNER			07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	181.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide	12.	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, as CO3	46.5	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand	81.0	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride	220.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N	Not Appl.	mg/L	1.0	0.050	353.2	07/25/95	BC	1
Nitrite as N	0.523	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N	2.0	mg/L	1.0	0.05	350.2	07/25/95	NH	2
Phosphate, Ortho as P	0.48	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Total as P	0.635	mg/L	1.0	0.10	365. 4	07/31/95	BC	3
Solids - Filterable Residue (TDS)	Not Appl.	mg/L	1.0	10	160.1	07/24/95	JF	4,5
Sulfate	65 .	mg/L	1.0	1	300.0	07/21/95	NH	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw)

CC: BOM

ATTN:RICK SACKS

OLIN (TN)

ATIN: STEVE MORROW

0000

⁽¹⁾ NA=This is a calculation and is not applicable to a matrix spike.

⁽²⁾ Sample Preparation on 07/25/95 by NH using 350.2

⁽³⁾ Sample Preparation on 07/27/95 by CLM

⁽⁴⁾ Sample Preparation on 07/21/95 by JF

⁽⁵⁾ NA=Matrix spike analysis is not applicable for this parameter.



Lab Number : WL-1098-37 Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 78 of 81

SAMPLE DESCRIPTION	MZ	MATRIX Aqueous			BY	SAMPLED DATE RECEIVED		
S00015 (UNFILIT/MS)	A				T. EANER		5	07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide Total Organic Carbon (TOC)	36. 43.2	mg/L	1.0		1 376.1 0 415.1	07/21/95 07/25/95		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw)

CC: BOM

ATTIN: RICK SACKS

CLIN (TN)

ATTN:STEVE MORROW

80000



Lab Number : WL-1098-38 Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 79 of 81

SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED DATE RECEIVED		
S00015 (UNFILT/DUP)		Aqueous	,	T. EB	T. EBNER		5	07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.100	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Total	0.017	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	3
Calcium, Total	32.9	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	3
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	4
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Total	0.407	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	3
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	07/28/95	KW	2
Magnesium, Total	2.85	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	3
Manganese, Total	0.075	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	3
Potassium, Total	2.32	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	3
Silicon, Total	1.52	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	3

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejnejn/kew LG28ICW4

CC: BCM

ATTIN: RICK SACKS

OLIN (TN)

ATTN:STEVE MORROW

⁽¹⁾ Sample Preparation on 07/28/95 by KEW using 3010

⁽²⁾ Sample Preparation on 07/24/95 by VM using 3020

⁽³⁾ Sample Preparation on 07/24/95 by VM using 3010

⁽⁴⁾ Sample Preparation on 07/19/95 by KAW using 7195



Lab Number : WL-1098-38

Report Date: 08/10/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 80 of 81

SAMPLE DESCRIPTION		MATRIX SAMPLED BY			TE RECEIVED
S00015 (UNFILT/DUP)		Aqueous	T. Eaner	07/19/95	07/19/95
PARAMETER	RESULT	UNITS DF	*PQL METHOD	ANALYZED I	BY NOTES
Sodium, Total	137	mg/L 2.0	0.10 200.7/6010	07/26/95 1	CW 1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 07/24/95 by VM using 3010

08/10/95

LJO/ejnejn/kew LG24ICW1

 ∞

CC: BCM

ATIN: RICK SACKS

OLIN (TN)

ATIN: STEVE MORROW



Lab Number : WL-1098-38 Report Date: 08/10/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 81 of 81

SAMPLE DESCRIPTION	M	TRIX		SAMPLED	BY	SAMPLED D	RECEIVED	
S00015 (UNFILIT/DUP)	Ac	queous		T. EBNE	R	07/19/95		07/19/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	ву	NOTES
Bicarbonate as HCO3	96.7	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, as CO3	<20.0	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand	16.0	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride	170.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N	1.98	mg/L	2.0	0.050	353.2	07/25/95	BC	
Nitrite as N	0.064	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N	1.0	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.050	365.2	07/20/95	NH	
Phosphorus, Total as P	<0.100	mg/L	1.0	0.10	365. 4	07/31/95	BC	2
Solids - Filterable Residue (TDS)	463	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate	53.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide	<1	mg/L	1.0	1	376.1	07/21/95	NH	
Total Organic Carbon (TOC)	5.02	mg/L	1.0	1.0	415.1	07/25/95	BC	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw)

CC: BCM
ATTN:RICK SACKS
CLIN (TN)
ATTN:STEVE MORROW

⁽¹⁾ Sample Preparation on 07/25/95 by NH using 350.2

⁽²⁾ Sample Preparation on 07/27/95 by CLM

⁽³⁾ Sample Preparation on 07/21/95 by JF



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1389-3 Report Date: 10/11/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

Page 16 of 36

SAMPLE DESCRIPTION		MATRIX		SAMPLED	BY	SAMPLED D	ATE	RECEIVED
POND		Solid		D. CAMER	ON	09/13/9)5	09/14/95
PARAMETER	RESULT	UNITS	DF	*PQL	WEITHOD	ANALYZED	BY	NOTES
Aluminum, Total	3600	mg/kgdrywt	1.0	10	6010	09/25/95	KW	1
Antimony, Total	14	mg/kgdrywt	1.0	0.50	6010	10/01/95	KW	1
Arsenic, Total	7.3	mg/kgdrywt	1.0	0.50	6010	10/01/95	KW	1
Barium, Total	74	mg/kgdrywt	1.0	0.50	6010	09/25/95	KW	1
Beryllium, Total	<0.63	mg/kgdrywt	1.0	0.50	6010	09/25/95	KW	1
Cadmium, Total	<1.3	mg/kgdrywt	1.0	1.0	6010	09/25/95	KW	1
Calcium, Total	1900	mg/kgdrywt	1.0	5.0	6010	09/25/95	KW	1
Chromium, Total	7800	mg/kgdrywt	20	1.5	6010	10/06/95	KW	1
Cobalt, Total	8.4	mg/kgdrywt	1.0	3.0	6010	09/25/95	KW	1
Copper, Total	65	mg/kgdrywt	1.0	2.5	6010	09/25/95	KW	1
Iron, Total	17000	mg/kgdrywt	1.0	2.5	6010	09/25/95	KW	1
Lead, Total	B36	mg/kgdrywt	1.0	0.50	6010	09/25/95	KW	1,2
Magnesium, Total	570	mg/kgdrywt	1.0	5.0	6010	09/25/95	KW	1
Manganese, Total	63	mg/kgdrywt	1.0	0.50	6010	09/25/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results amnotated with '<' values.

10/11/95

LJO/ejnejn/kew LJ21JCS1

⁽¹⁾ Sample Preparation on 09/21/95 by VM using 3050

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of lead in the method blank was 0.76 mg/kgdrywt.



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1389-3 Report Date: 10/11/95

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SAMPLE DESCRIPTION		MATRIX		SAMPLED	BY	SAMPLED I	PATE	RECEIVED
POND		Solid		D. CAMER	09/13/95		09/14/95	
PARAMETER	RESULT	UNITS	DF	+bor	METHOD	ANALYZED	BY	NOTES
Mercury, Total	0.54	μg/gdrywt	1.0	0.10	7471	09/28/95	JF	1
Nickel, Total	7.5	mg/kgdrywt	1.0	4.0	6010	09/26/95	KW	2
Potassium, Total	230	mg/kgdrywt	1.0	50.	6010	09/26/95	KW	2
Selenium, Total	<0.61	mg/kgdrywt	1.0	0.50	7740	09/25/95	KW	2
Silver, Total	<1.9	mg/kgdrywt	1.0	1.5	6010	09/25/95	KW	2
Sodium, Total	140	mg/kgdrywt	1.0	10	6010	09/26/95	KW	2
Thallium, Total	3.0	mg/kgdrywt	1.0	1.0	6010	10/01/95	KW	2
Vanadium, Total	39	mg/kgdrywt	1.0	2.5	6010	09/25/95	KW	2
Zinc, Total	13	mg/kgdrywt	1.0	2.5	6010	09/25/95	KW	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/11/95

LJO/ejnejn/kew LJ27HGS1

⁽¹⁾ Sample Preparation on 09/27/95 by JAF using 7471

⁽²⁾ Sample Preparation on 09/21/95 by VM using 3050



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CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1389-3 Report Date: 10/11/95

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SAMPLE DESCRIPTION	MATRIX SAMPLED			ED BY	SAMPLED I	DATE	RECEIVED		
POND		Solid		D. CA	MERON	09/13/9)5	09/14/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Solids-Total Residue (TS)	55.	wt &	1.0	0.10	CIP/CID	SOW 09/15/95	JF	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 09/14/95 by JF

10/11/95

LJO/ejngbp (dw) /pph



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1389-3 Report Date: 10/11/95

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY					SAMPLED D	RECEIVED	
POND		Solid		D. CAMERON		09/13/9	5	09/14/95
PARAMETER	RESULT	UNITS	DF	*PQL ME	THOD	ANALYZED	BY	NOTES
TCL Pesticides/PCBs by USEPA 8080								1,2,3
alpha-BHC	<230.	μg/k gdryw t	137	1.7 EP	8080	09/27/95	LB	
gamma-BHC (Lindane)	<230.	μg/kgdrywt	137	1.7 EP	A 8080	09/27/95	LB	
Heptachlor	<230.	μg/k gdryw t	137	1.7 EP	A 8080	09/27/95	LB	
Aldrin	260.	μg/kgđrywt	137	1.7 EP	A B080	09/27/95	LB	
beta-BHC	<230.	μg/kgdrywt	137	1.7 EP	8080	09/27/95	LB	
delta-BHC	<230.	μg/k gdrywt	1.0	1.7 EP	A 8080	09/27/95	LB	
Heptachlor epoxide	<230.	μg/kgdrywt	1.0	1.7 EP	A 8080	09/27/95	LB	
Endosulfan I	<230.	μg/kgdrywt	1.0	1.7 EP	A 8080	09/27/95	LB	
gamma-Chlordane	<230.	μg/kgdrywt	1.0	1.7 EP	8080	09/27/95	LB	
alpha-Chlordane	<230.	μg/kgdrywt	1.0	1.7 KP	8080	09/27/95	LB	
4,4'-DDE	<450.	μg/kgdrywt		3.3 KP	8080	09/27/95	LB	
Dieldrin	<450.	μg/kgdrywt	1.0	3.3 EP	8080	09/27/95	LB	
Endrin	<450.	μg/kgdrywt		3.3 KP	8080	09/27/95	LB	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/11/95

LJO/jcbajc/djn/gbp(dw)/kp/lab

⁽¹⁾ Sample Preparation on 09/15/95 by NEN using EPA 3550

^{(2) &}quot;DL" flag denotes inability to calculate surrogate recovery due to sample dilution.

⁽³⁾ Sample dilution required due to matrix interference, sample viscosity or other matrix-related problem; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.



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SAMPLE DESCRIPTION		MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
POND		Solid	D. CAMERON	09/13/95	09/14/95
PARAMETER	RESULT	UNITS DE	*PQL METHOD	ANALYZED BY	NOTES
4,4'-DDD	<450.	μg/kgdrywt 1.0	3.3 EPA 8080	09/27/95 LB	
Endosulfan II	<450.	μg/kgdrywt 1.0	3.3 EPA 8080	09/27/95 LB	
4,41-DDT	<450.	μg/kgdrywt 1.0		09/27/95 LB	
Endrin aldehyde	<450.	μg/kgdrywt 1.0	3.3 EPA 8080	09/27/95 LB	
Endosulfan sulfate	<450.	μg/kgdrywt 1.0	3.3 EPA 8080	09/27/95 LB	
Methoxychlor	<2300.	μg/kgdrywt 1.0	17 EPA 8080	09/27/95 LB	
Endrin ketone	<450.	μg/kgdrywt 1.0	3.3 EPA 8080	09/27/95 LB	
Toxaphene	<4500.	μg/kgdrywt 1.0	33 EPA 8080	09/27/95 LB	
PCB-1016	<2300.	μg/kgdrywt 1.0	17 EPA 8080	09/27/95 LB	
PCB-1221	<4500.	μg/kgdrywt 1.0	33 EPA 8080	09/27/95 LB	
PCB-1232	<2300.	μg/kgdrywt 1.0	17 EPA 8080	09/27/95 LB	
PCB-1242	<2300.	μg/kgdrywt 1.0	17 EPA 8080	09/27/95 LB	
PCB-1248	<2300.	μg/kgdrywt 1.0	17 EPA 8080	09/27/95 LB	
PCB-1254	<2300.	μg/kgdrywt 1.0	17 EPA 8080	09/27/95 LB	

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LJO/jcbajc/djn/gbp(dw)/kp/lab

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SAMPLE DESCRIPTION	_	MATRIX		SAMPLED	BY	SAMPLED I	TATE	RECEIVED
POND		Solid		D. CAMER	ON	09/13/9	5	09/14/95
PARAMETER	RESULT	UNITS	DF	+PQL	WEIHOD	ANALYZED	BY	NOTES
PCB-1260	<2300.	μg/kgdrywt.	1.0	17	EPA 8080	09/27/95	LB	
2,4,5,6-Tetrachloro-meta-xylene (%	DL	ŧ	1.0		EPA 8080	09/27/95	IB	
Decachlorobiphenyl (* Recovery)	DL	ł	1.0		EPA 8080	09/27/95	LB	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/11/95

LJO/jcbajc/djn/gbp(dw)/kp/lab

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CLIENT: DON CAMERON

OLIN CHEMICALS 51 KAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1389-3 Report Date: 10/11/95

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY			ВУ	SAMPLED DATE RECEIVE		
POND		Solid		D. CAMER	ON	09/13/9	5	09/14/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA					-			1,2,3,4
8270								
Phenol	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
bis(2-Chloroethyl)ether	<5900.	μg/k gdryw t	18.0	330	EPA 8270	09/19/95	AC	
2-Chlorophenol	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
1,3-Dichlorobenzene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
1,4-Dichlorobenzene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
1,2-Dichlorobenzene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2-Methylphenol	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
bis(2-Chloroisopropyl) ether	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
4-Methylphenol	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
n-Nitroso-dipropylamine	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Hexachloroethane	<5900.	μg/kgdrywt		330	EPA 8270	09/19/95	AC	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/11/95

⁽¹⁾ Sample Preparation on 09/15/95 by NEN using EPA 3550

^{(2) &}quot;J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

^{(3) &}quot;B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

⁽⁴⁾ Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.



CLIENT: DON CAMERON

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	RECEIVED	
POND		Solid		D. CAMER	ON	09/13/9	5	09/14/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nitrobenzene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Isophorone	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2-Nitrophenol	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2,4-Dimethylphenol	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
bis (2-Chloroethoxy) methane	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2,4-Dichlorophenol	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
1,2,4-Trichlorobenzene	<5900.	μg/k gdryw t	18.0	330	EPA 8270	09/19/95	AC	
Naphthalene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
4-Chloroaniline	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Hexachlorobutadiene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
4-Chloro-3-methylphenol	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2-Methylnaphthalene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Hexachlorocyclopentadiene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	

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SAMPLE DESCRIPTION		MATRIX	SAMPLED I	BY	SAMPLED D	RECEIVED		
POND		Solid		D. CAMER	DIA .	09/13/9	5	09/14/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4,6-Trichlorophenol	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2,4,5-Trichlorophenol	<15000.	μg/kgdrywt	18.0	820	EPA 8270	09/19/95	AC	
2-Chloronaphthalene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2-Nitroaniline	<15000.	μg/kgdrywt	18.0	820	EPA 8270	09/19/95	AC	
Dimethylphthalate	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Acenaphthylene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2,6-Dinitrotoluene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
3-Nitroaniline	<15000.	μg/kgdrywt	18.0	820	EPA 8270	09/19/95	AC	
Acenaphthene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2,4-Dinitrophenol	<15000.	μg/kgdrywt	18.0	820	EPA 8270	09/19/95	AC	
4-Nitrophenol	<15000.	μg/kgdrywt	18.0	820	EPA 8270	09/19/95	AC	
Dibenzofuran	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2,4-Dinitrotoluene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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SAMPLE DESCRIPTION	_	MATRIX	SAMPLED :	BY	SAMPLED DATE RECE			
POND		Solid		D. CAMER	ON	09/13/9	5	09/14/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Diethylphthalate	<5900.	μg/kgἀrywt	18.0	330	EPA 8270	09/19/95	AC	
4-Chlorophenyl phenyl ether	J2300	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Fluorene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
4-Nitroaniline	<15000.	μg/kgdrywt	18.0	820	EPA 8270	09/19/95	AC	
4,6-Dinitro-2-methylphenol	<15000.	μg/kgdrywt	18.0	820	EPA 8270	09/19/95	AC	
n-Nitrosodiphenylamine	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
4-Bromophenyl phenyl ether	J3400	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Hexachlorobenzene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Pentachlorophenol	<15000.	μg/kgdrywt	18.0	820	EPA 8270	09/19/95	AC	
Phenanthrene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Anthracene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Carbazole	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Di-n-butylphthalate	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/11/95



CLIENT: DON CAMERON

OLIN CHEMICALS 51 KAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1389-3 Report Date: 10/11/95

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SAMPLE DESCRIPTION		MATRIX		SAMPLED	BY	SAMPLED D	RECEIVED	
POND		Solid		D. CAMER	ON	09/13/9	5	09/14/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Fluoranthene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Pyrene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Butyl benzylphthalate	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
3,3'-Dichlorobenzidine	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Benzo (a) anthracene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Chrysene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
bis(2-Ethylhexyl)phthalate	B850000	μg/kgdrywt	360.	330	EPA 8270	09/19/95	AC	
Di-n-octylphthalate	J1200	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Benzo (b) fluoranthene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Benzo(k) fluoranthene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Benzo(a) pyrene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Indeno(1,2,3-cd)pyrene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Dibenzo (a, h) anthracene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/11/95



CLIENT: DON CAMERON

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SAMPLE DESCRIPTION		MATRIX	4	SAMPLED I	BY	SAMPLED I	TEAC	RECEIVED
POND		Solid	1	D. CAMER	ON	09/13/9	95	09/14/95
PARAMETER	RESULT	UNITIS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo (g,h,i) perylene	<5900.	μg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2-Fluorophenol (Surr.)	89.	*	18.0		EPA 8270	09/19/95	AC	
Phenol-d5 (Surr.)	87.	*	18.0		EPA 8270	09/19/95	AC	
Nitrobenzene-d5 (Surr.)	73.	*	18.0		EPA 8270	09/19/95	AC	
2-Fluorobiphenyl (Surr.)	92.	*	18.0		EPA 8270	09/19/95	AC	
2,4,6-Tribromophenol(Surr.)	78.	*	18.0		EPA 8270	09/19/95	AC	
Terphenyl-d14 (Surr.)	85.	*	18.0		EPA 8270	09/19/95	AC	

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10/11/95



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1389-3 Report Date: 10/11/95

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SAMPLE DESCRIPTION	_	MATRIX SAMPLED BY			SAMPLED I	SAMPLED DATE RECEIVED			
POND	Solid		D. CAMERON	09/13/9	09/13/95				
PARAMETER	RESULT	UNITS	DF	*PQL METHOD	ANALYZED	BY	NOTES		
TCL Volatile Organics +							1,2		
Trimethylpentenes by USEPA 8240									
Chloromethane	<91.	μg/kgdrywt	9.1	10 EPA 82	10 09/15/95	IG			
Bromomethane	<91.	µg/kgdrywt	9.1	10 EPA 82	10 09/15/95	LG			
Vinyl chloride	<91.	μg/kgdrywt	9.1	10 EPA 82	10 09/15/95	IG			
Chloroethane	<91.	μg/kgdrywt	9.1	10 EPA 82	10 09/15/95	IG			
Methylene chloride	J22	μg/kgdrywt	9.1	10 EPA 82	10 09/15/95	LG			
Acetone	J\$5	μg/kgdrywt	9.1	15 KPA 82	10 09/15/95	LG			
Carbon disulfide	<91.	μg/kgdrywt	9.1	10 KPA 82	10 09/15/95	LG			
1,1-Dichloroethene	<46.	μg/kgdrywt	9.1	5 KPA 82	10 09/15/95	IG			
1,1-Dichloroethane	J14	μg/kgdrywt	9.1	5 EPA 82	10 09/15/95	LG			
Total 1,2-Dichloroethene	<46.	μg/kgdrywt		5 EPA 82	10 09/15/95	LG			
Chloroform	<46.	μg/kgdrywt		5 KPA 82	10 09/15/95	IG			
1,2-Dichloroethane	<46.	μg/kgdrywt			10 09/15/95				
2-Butanone	<140.	μg/kgdrywt			10 09/15/95				

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/11/95

LJO/jcbgbp(dw)/jfg/kwh/lag

^{(1) &}quot;J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

⁽²⁾ Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1389-3 Report Date: 10/11/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY			BY	SAMPLED DATE RECEIVED			
POND		Solid		D. CAMER	ON	09/13/95		09/14/95	
PARAMETER	RESULT	UNITS	DF	*PQL	WEIHOD	ANALYZED	BY	NOTES	
1,1,1-Trichloroethane	<46.	μg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG		
Carbon tetrachloride	<46.	μg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG		
Vinyl acetate	<140.	μg/k g drywt	9.1	15	EPA 8240	09/15/95	LG		
Bromodichloromethane	<46.	μg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG		
1,2-Dichloropropane	<46.	μg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG		
cis-1,3-Dichloropropene	<46.	μg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG		
Trichloroethene	<46.	μg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG		
Dibromochloromethane	<46.	μg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG		
1,1,2-Trichloroethane	<46.	μg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG		
Benzene	<46.	μg/kgdrywt	9.1	5	EPA 8240	09/15/95	IG		
trans-1,3-Dichloropropene	<46.	μg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG		
Bromoform	<46.	μg/kgdrywt	9.1	5	EPA 8240	09/15/95	IG		
2,4,4-Trimethyl-2-pentene	1800.	μg/kgdrywt	9.1	10	EPA 8240	09/15/95	LG		
2,4,4-Trimethyl-1-pentene	12000.	μg/kgdrywt	230.	10	EPA 8240	09/15/95	LG		
4-Methyl-2-pentanone	<140.	µg/kgdrywt	9.1	15	EPA 8240	09/15/95	IG		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/11/95

LJO/jcbgbp(dw)/jfg/kwh/lag



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1389-3 Report Date: 10/11/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED I	RECEIVED		
POND		Solid		D. CAMERON			09/13/95		09/14/95
PARAMETER	RESULT	UNITS	DF	*PQL	MEI	HOD.	ANALYZED	BY	NOTES
2-Hexanone	<140.	μg/kgdrywt	9.1	15	KPA	8240	09/15/95	IG	
Tetrachloroethene	J32	μg/kgdrywt	9.1	5	EPA	8240	09/15/95	IG	
1,1,2,2-Tetrachloroethane	<46.	μg/k gdrywt	9.1	5	KPA	8240	09/15/95	LG	
Toluene	<46.	μg/kgdrywt	9.1	5	EPA	8240	09/15/95	IG	
Chlorobenzene	<46.	μg/kgdrywt	9.1	5	EPA	8240	09/15/95	IG	
Bthylbenzene	<46.	μg/kgdrywt	9.1	5	EPA	8240	09/15/95	LG	
Styrene	<46.	μg/kgdrywt	9.1	5	EPA	8240	09/15/95	LG	
Total Xylenes	J33	μg/kgdrywt	9.1	5	EPA	8240	09/15/95	LG	
1,2-Dichloroethane-d4(% Recovery)	93.	*	9.1		KPA	8240	09/15/95	IG	
Toluene-d8 (% Recovery)	108.	*	9.1		EPA	8240	09/15/95	LG	
p-Bromofluorobenzene (* Recovery)	83.	*	9.1		EPA	8240	09/15/95	LG	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/11/95

LJO/jcbgbp(dw)/jfg/kwh/lag

Field Identification: GW-64S (FILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	78	1	45683-001	10/18/95	764	325.1/1
Sulfate, dissolved (mg/L)	13	1	45683-001	10/17/95	667A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45683-001	10/17/95	667A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.04	0.02	45683-001	10/17/95	202	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.37	0.05	45683-008	10/18/95	584	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45683-015	10/17/95	311	376.1/1

Field Identification: GW-64D (FILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	230	1	45683-002	10/18/95	764	325.1/1
Sulfate, dissolved (mg/L)	710	10	45683-002	10/17/95	667A	300.0/1
Bromide, dissolved (mg/L)	2	1	45683-002	10/17/95	667A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45683-002	10/17/95	202	365.2/1
Ammonia-N, dissolved (mg/L as N)	15	0.05	45683-009	10/18/95	584	350.2/1
Sulfide, dissolved (mg/L)	3	1	45683-016	10/17/95	311	376.1/1

Field Identification: GW-62S (FILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Resul t	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	50	1	45683-003	10/18/95	764	325.1/1
Sulfate, dissolved (mg/L)	57	1	45683-003	10/17/95	667A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45683-003	10/17/95	667A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45683-003	10/17/95	202	365.2/1
Ammonia-N, dissolved (mg/L as N)	2.2	0.05	45683-010	10/18/95	584	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45683-017	10/17/95	311	376.1/1
Viscosity, dissolved (cpoise)	3.0		45683-022			D3245-85



Field Identification: GW-62D (FILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Resul t	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	83	1	45683-004	10/18/95	764	325.1/1
Sulfate, dissolved (mg/L)	100	1	45683-004	10/17/95	667A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45683-004	10/17/95	667A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BOL	0.02	45683-004	10/17/95	202	365.2/1
Ammonia-N, dissolved (mg/L as N)	3.0	0.05	45683-011	10/18/95	584	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45683-018	10/17/95	311	376.1/1
Viscosity, dissolved (cpoise)	3.0		45683-023			D3245-85

Field Identification: GW-62BR (FILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	R es ul t	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	1700	10	45683-005	10/23/95	768	325.1/1
Sulfate, dissolved (mg/L)	4400	100	45683-005	10/17/95	667A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45683-005	10/17/95	667A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45683-005	10/17/95	202	365.2/1
Ammonia-N, dissolved (mg/L as N)	100	0.5	45683-012	10/18/95	584	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45683-019	10/17/95	311	376.1/1
Viscosity, dissolved (cpoise)	3.0		45683-024			D3245-85

Field Identification: GW-58S (FILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Anal yzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	110	1	45683-006	10/18/95	764	325.1/1
Sulfate, dissolved (mg/L)	35	1	45683-006	10/17/95	667A	300.0/1
Bromide, dissolved (mg/L)	BOL	1	45683-006	10/17/95	667A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45683-006	10/17/95	202	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.86	0.05	45683-013	10/18/95	584	350.2/1
Sulfide, dissolved (mg/L)	BOL	1	45683-020	10/17/95	311	376.1/1
Viscosity, dissolved (cpoise)	3.0		45683-025			D3245-85



Field Identification: GW-580 (FILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	970	10	45683-007	10/23/95	768	325.1/1
Sulfate, dissolved (mg/L)	3600	100	45683-007	10/17/95	667A	300.0/1
Bromide, dissolved (mg/L)	8	1	45683-007	10/17/95	667A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45683-007	10/17/95	202	365.2/1
Ammonia-N, dissolved (mg/L as N)	480	5	45683-014	10/18/95	584	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45683-021	10/17/95	311	376.1/1
Viscosity, dissolved (cpoise)	3.0		45683-026			D3245-85

Field Identification: GW-64S (UNFILT)

Matrix: WATER

			Date	QC		
Parameter	Resul t	Limit	Lab No.	Analyzed		Method/Ref.
Ammonia-N (mg/L as N)	0.35	0.05	45683-027	10/18/95		350.2/1

Field Identification: GW-64D (UNFILT)

Matrix: WATER

	Reporting			Date	QC	
Parameter	Result	Limit Lab No.		Analyzed		Method/Ref.
Ammonia-N (mg/L as N)	16	0.05	45683-028	10/18/95		350.2/1

Field Identification: GW-62S (UNFILT)

Matrix: WATER

	Reporting			Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed		Method/Ref.
Ammonia-N (mg/L as N)	2.3	0.05	45683-029	10/18/95		350.2/1

Field Identification: GW-62D (UNFILT)

Matrix: WATER

			Date	QC			
Parameter	Result	Limit	Lab No.	Analyzed		Method/Ref.	
Ammonia-N (mg/L as N)	2.7	0.05	45683-030	10/18/95		350.2/1	



Field Identification: GW-62BR (UNFILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed		Method/Ref.
Ammonia-N (mg/L as N)	96	0.5	45683-031	10/18/95		350.2/1

Field Identification: GW-58S (UNFILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.			Method/Ref.
Ammonia-N (mg/L as N)	0.82	0.05				350.2/1

Field Identification: GW-58D (UNFILT)

Matrix: WATER

			Date	QC		
Parameter	Result	Limit Lab No.		Analyzed		Nethod/Ref.
Ammonia-N (mg/L as N)	570	5	45683-033	10/18/95		350.2/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984



PACE INC. NE-NH LAB QUALITY CONTROL

Sulfate

Method: EPA-600 300.0

QC Batch: 667A Matrix: WATER

METHOD BLANK:

Result mg/L

< 1.00

LABORATORY CONTROL SAMPLES: Accuracy

True Observed
Value Value Recovery
mg/L mg/L * 50.0 47.690 95.4

FIELD SAMPLE:

LCS1

Relative Percent Precision Replicate 1 Replicate 2 Average Difference mg/L mg/L * Lab No. -----13.58 13.33 13.82 3.6 45683-1

Spike Spike
Replicate 1 Added Found Recovery
mg/L mg/L mg/L \$ Accuracy Lab No. -----13.33 10 25.04 117.1 45683-1





CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-1613-1 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	N	MATRIX Aqueous		SAMPLED I	SAMPLED DATE RECEIVED			
GW-10S (UNFILT)	P			T. EBNER	10/13/95 10/1		10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	8.1	mg/L	1.0	2.0	325.2	10/25/95	CM	
Nitrogen-Ammonia as N	2.9	mg/L	10	0.10	350.1	11/09/95	CM	
Sulfate	19.	mg/L	1.0	1.0	375.4	11/01/95	CM	
pH (Laboratory)	4.7	pH Units	1.0	0.1	150.1	10/17/95	JF	1

^{*} POL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejngbp (dw) /pph

CC: OLIN (TN)

ATTN:STEVE MORROW BOM-RICK SACKS

An Equal Opportunity Employer

⁽¹⁾ The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-2

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 2 of 28

SAMPLE DESCRIPTION	<u> </u>	MATRIX Aqueous		SAMPLED 1	SAMPLED DATE RECEIVED			
GW-11 (UNFILT)	Ą			T. EBNER	10/13/95		10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	55.	mg/L	1.0	2.0	325.2	10/25/95	CM	
Nitrogen-Ammonia as N	49.	mg/L	20	0.10	350.1	10/27/95	CM	
Sulfate	460.	mg/L	100	1.0	375.4	11/02/95	MB	
pH (Laboratory)	6.6	pH Units	1.0	0.1	150.1	10/17/95	JF	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejngbp(dw)/pph

CC: OLIN (TN)

ATTN: STEVE MORROW BOM-RICK SACKS

⁽¹⁾ The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-1613-3

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	E DESCRIPTION MA			SAMPLED :	SAMPLED DATE RECEIVED					
GW-11 (UNFILT/MS)	A	Aqueous			T. EBNER			10/13/95 10/16/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Chloride	51.6	mg/L	1.0	2.0	325.2	11/07/95	CM			
Nitrogen-Ammonia as N	56.0	mg/L	20	0.10	350.1	11/09/95	CM			
Sulfate	950	mg/L	100	1.0	375.4	11/02/95	MB			
pH (Laboratory)	Not Appl.	pH Unit	s 1.0	0.1	150.1	10/17/95	JF	1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Matrix spike analysis is not applicable for this parameter.

11/16/95

LJO/ejngbp (dw) /pph

CC: OLIN (TN)

ATTN: STEVE MORROW BOM-RICK SACKS



Lab Number: WL-1613-4

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET

CLIENT: DON CAMERON

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	1	MATRIX			SAMPLED BY			SAMPLED DATE RECEIVED		
GW-11 (UNFILIT/DUP)	,	Aqueous		T. EBNER	10/13/95		10/16/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Chloride	53.6	mg/L	1.0	2.0	325.2	10/25/95	CM			
Nitrogen-Ammonia as N	53.8	mg/L	20	0.10	350.1	10/27/95	CM			
Sulfate	422	mg/L	100	1.0	375.4	11/02/95	MB			
pH (Laboratory)	6.66	pH Units	1.0	0.1	150.1	10/17/95	JF	1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.

11/16/95

LJO/ejngbp (dw) /pph

CC: OLIN (TN)

ATIN: STEVE MORROW BOM-RICK SACKS



Lab Number: WL-1613-5

Report Date: 11/16/95 PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		ATRIX		SAMPLED :	BY	SAMPLED I	10/13/95 10/16/95 ANALYZED BY NOTES 10/25/95 CM		
GW-24 (UNFILT)	7	Aqueous		T. EBNER		10/13/95 10/		10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chloride	53.	mg/L	1.0	2.0	325.2	10/25/95	CM		
Nitrogen-Ammonia as N	89.	mg/L	40	0.10	350.1	10/27/95	CM		
Sulfate	170.	mg/L	10	1.0	375.4	11/02/95	MB		
pH (Laboratory)	6.9	pH Units	1.0	0.1	150.1	10/17/95	JF	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejngbp(dw)/pph

CC: OLIN (TN)

ATIN: STEVE MORROW BCM-RICK SACKS

⁽¹⁾ The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.



Report Date: 11/16/95

Lab Number: WL-1613-6

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887 PO No.

: SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	P.	PATRIX	SAMPLED BY			SAMPLED DATE RECEIVE			
GW-25 (UNFILT)		\quecus		T. EBNER		ANALYZED BY NOT	10/16/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chloride	110.	mg/L	4.0	2.0	325.2	10/27/95	CM		
Nitrogen-Ammonia as N	99.	mg/L	40	0.10	350.1	10/27/95	CM		
Sulfate	200.	mg/L	10	1.0	375.4	11/02/95	MB		
pH (Laboratory)	6.6	pH Units	1.0	0.1	150.1	10/17/95	JF	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejngbp (dw) /pph

CC: OLIN (TN)

ATTN:STEVE MORROW BCM-RICK SACKS

⁽¹⁾ The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.



Lab Number: WL-1613-7

PO No.

Report Date: 11/16/95 : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET

CLIENT: DON CAMERON

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	b	ATRIX	X SAMPLED BY				ANALYZED BY NOTE		
GW-26 (UNFILT)	, , , , , , , , , , , , , , , , , , ,	dreona	T. EBNER 10/13/95		5	10/16/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chloride	11.	mg/L	1.0	2.0	325.2	10/25/95	CM		
Nitrogen-Ammonia as N	30.	mg/L	20	0.10	350.1	10/27/95	CM		
Sulfate	80.	mg/L	10	1.0	375.4	11/02/95	MB		
pH (Laboratory)	6.3	pH Units	1.0	0.1	150.1	10/17/95	JF	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) The laboratory was requested to perform this analysis after the expiration of the analytical

hold-time.

11/16/95

LJO/ejngbp (dw) /pph

CC: OLIN (TN)

ATTN:STEVE MORROW BOM-RICK SACKS



Lab Number: WL-1613-8

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	P.	ATRIX	SAMPLED BY SAMPLED DATE R				RECEIVED	
GW-35S (UNFILT)	J	\queous		T. EBNER		10/13/95 10/		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	48.	mg/L	1.0	2.0	325.2	10/25/95	CM	
Nitrogen-Ammonia as N	67.	mg/L	20	0.10	350.1	10/27/95	CM	
Sulfate	610.	mg/L	50	1.0	375.4	11/02/95	MB	
pH (Laboratory)	6.5	pH Units	1.0	0.1	150.1	10/17/95	JF	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejngbp (dw) /pph

CC: OLIN (TN)

ATTN:STEVE MORROW BCM-RICK SACKS

⁽¹⁾ The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.



Lab Number: WL-1613-9 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS

> 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		ATRIX	_	SAMPLED	BY	SAMPLED I	0/25/95 CM		
GW-39 (UNFILIT)		Aqueous	DUS T. EBNER			10/13/95 10/16/9		10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chloride	40.	mg/L	1.0	2.0	325.2	10/25/95	СM		
Nitrogen-Ammonia as N	0.13	mg/L	1.0	0.10	350.1	11/03/95	CM		
Sulfate	91.	mg/L	10	1.0	375.4	11/02/95	MB		
pH (Laboratory)	6.2	pH Units	1.0	0.1	150.1	10/17/95	JF	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) The laboratory was requested to perform this analysis after the expiration of the analytical

11/16/95

LJO/ejngbp (dw) /pph

hold-time.

CC: OLIN (TN)

ATTN:STEVE MORROW BCM-RICK SACKS



Lab Number : WL-1613-10 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 10 of 28

SAMPLE DESCRIPTION		ATRIX		SAMPLED BY SAMPLED DATE RECI				RECEIVED
GW-39D (UNFILIT)		Aqueous T. EBNER			10/13/95 10/16/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	40.	mg/L	1.0	2.0	325.2	10/25/95	CM	
Nitrogen-Ammonia as N	<1.0	mg/L	10	0.10	350.1	11/09/95	CM	1
Sulfate	84.	mg/L	10	1.0	375.4	11/02/95	MB	
pH (Laboratory)	6.1	pH Units	1.0	0.1	150.1	10/17/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejngbp (dw) /pph

CC: OLIN (TN)

ATIN: STEVE MORROW BCM-RICK SACKS

⁽¹⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽²⁾ The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.



Lab Number : WL-1613-11

Report Date: 11/16/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 11 of 28

SAMPLE DESCRIPTION		ATRIX		SAMPLED I	BY	SAMPLED D	SAMPLED DATE RECEIVED 10/13/95 10/16/95 ANALYZED BY NOTES			
GW-42S (UNFILIT)	3	Aqueous		T. EBNER		10/13/95 10/16/		10/16/95		
PARAMETER	RESULT	UNITS	DF	*PQL	WEITHOD	ANALYZED	BY	NOTES		
Chloride	76.	mg/L	1.0	2.0	325.2	10/25/95	CM			
Nitrogen-Ammonia as N	0.40	mg/L	1.0	0.10	350.1	11/03/95	CM			
Sulfate	<10	mg/L	10	1.0	375.4	11/02/95	MB	1		
pH (Laboratory)	5.3	pH Units	1.0	0.1	150.1	10/17/95	JF	2		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejngbp (dw) /pph

CC: OLIN (TN)

ATTN: STEVE MORROW BOM-RICK SACKS

⁽¹⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽²⁾ The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.



Lab Number: WL-1613-12

Report Date: 11/16/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		ATRIX		SAMPLED 1	ву	SAMPLED D	ATE	RECEIVED
GW-43S (UNFILIT)	,	Aqueous	T. EBNER 10		10/13/9	95	10/16/95	
PARAMETER	RESULT	UNITS	DF	+PQL	METHOD	ANALYZED	BY	NOTES
Chloride	79.	mg/L	1.0	2.0	325.2	10/25/95	CM	
Nitrogen-Ammonia as N	100.	mg/L	40	0.10	350.1	10/27/95	CM	
Sulfate	480.	mg/L	50	1.0	375.4	11/02/95	MB	
pH (Laboratory)	6.0	pH Units	1.0	0.1	150.1	10/17/95	JF	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.

11/16/95

LJO/ejngbp (dw) /pph

CC: OLIN (TN)

ATIN: STEVE MORROW BOM-RICK SACKS



Lab Number : WL-1613-13

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 13 of 28

SAMPLE DESCRIPTION		PATRIX		SAMPLED 1	BY	SAMPLED I	10/27/95 CM		
GW-55S (UNFILIT)		dreans	T. EBNER 10/13/99)5	5 10/16/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Chloride	640.	mg/L	10	2.0	325.2	10/27/95	CM		
Nitrogen-Ammonia as N	220	mg/L	100	0.10	350.1	11/09/95	CM		
Sulfate	3000.	mg/L	200	1.0	375.4	11/02/95	MB		
pH (Laboratory)	5.6	pH Units	1.0	0.1	150.1	10/17/95	JF	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) The laboratory was requested to perform this analysis after the expiration of the analytical

11/16/95

LJO/ejngbp (dw) /pph

hold-time.

CC: OLIN (TN)

ATTN:STEVE MORROW BCM-RICK SACKS



Lab Number : WL-1613-14

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	1	ATRIX	•	SAMPLED I	BY	SAMPLED I				
RINSE BLANK (UNFILT)	,	Aqueous		T. EBNER		10/13/9	5	10/16/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Chloride	<2.0	mg/L	1.0	2.0	325.2	10/25/95	CM			
Nitrogen-Ammonia as N	<0.10	mg/L	1.0	0.10	350.1	11/09/95	CM			
Sulfate	<1.0	mg/L	1.0	1.0	375.4	11/02/95	MB			
pH (Laboratory)	4.7	pH Units	1.0	0.1	150.1	10/17/95	JF	1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.

11/16/95

LJO/ejngbp (dw) /pph

CC: CLIN (TN)

ATTN:STEVE MORROW BOM-RICK SACKS



Lab Number : WL-1613-15

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	PATRIX		SAMPLE	D BY	SAMPLED DATE RECEIVE			
GW-10S (FILT)	2	Aqueous T. EBNER		ER	10/13/95		10/16/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved Chromium, Dissolved	1.8 <0.015	mg/L mg/L	1.0 1.0		200.7/6010 200.7/6010				

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejngbp (dw) /kew LJ18ICW1

CC: OLIN (TN)

ATIN: STEVE MORROW BOM-RICK SACKS



Lab Number : WL-1613-16

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPLE	D BY	SAMPLED D	RECEIVED	
GW-11 (FILT)	Aqueous		T. KBN	SR	10/13/95		10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved Chromium, Dissolved	<0.10 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010			1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejngbp (dw) /kew

CC: OLIN (TN)

ATTN:STEVE MORROW BCM-RICK SACKS



Lab Number : WL-1613-17 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	ATRIX		SAMPLE	D BY	SAMPLED I	SAMPLED DATE RECEIVED			
GW-11 (FILT/MS)	A	quecus		T. EBNER		10/13/95		10/16/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Dissolved Chromium, Dissolved	2.03 0.200	mg/L mg/L	1.0		200.7/6010 200.7/6010	• •		_		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejnejn/kew LJ18ICW1 CC: OLIN(TN)

> ATTN:STEVE MORROW BCM-RICK SACKS



Lab Number : WL-1613-18 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				D BY	SAMPLED I	PLED DATE RECEIVED			
GW-11 (FILT/DOP)	Aqueous		T. EBN	ER	10/13/95 10		10/16/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Dissolved Chromium, Dissolved	<0.10 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010					

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejngbp(dw)/kew

CC: OLIN (TN)

ATTN: STEVE MORROW BOM-RICK SACKS



Lab Number : WL-1613-19

Report Date: 11/16/95 PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPLE	D BY	SAMPLED I	RECEIVED	
GW-24 (FILT)	Aqueous		T. EBN	ER	10/13/95		10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved Chromium, Dissolved	<0.10 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010			1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejngbp (dw) /kew

CC: OLIN (TN)

ATIN: STEVE MORROW BOM-RICK SACKS



Lab Number : WL-1613-20 Report Date: 11/16/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	м	ATRIX		SAMPLE	D BA	SAMPLED D	RECEIVED	
GW-25 (FILT)	A	dreona		T. EBN	ER	10/13/9	5	10/16/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved Chromium, Dissolved	<0.10 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010			

^{*} POL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejngtop (dw) /kew

CC: OLIN (TN)

ATTN:STEVE MORROW BCM-RICK SACKS



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-21

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 21 of 28

SAMPLE DESCRIPTION	1	ATRIX		SAMPLE	р ву	SAMPLED I	SAMPLED DATE RECEIV			
GW-26 (FILT)	1	Aqueous		T. EBN	ER	10/13/9	10/16/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Dissolved Chromium, Dissolved	<0.10 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010			1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejngtp (dw) /kew

CC: OLIN (TN)

ATTN:STEVE MORROW BOM-RICK SACKS



Lab Number : WL-1613-22

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	ATRIX		SAMPLE	D BY	SAMPLED D	ATE	RECEIVED
GW-35S (FILT)	А	Aqueous			T. EBNER		10/13/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved Chromium, Dissolved	0.12 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010			1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejngbp (dw) /kew

CC: OLIN (TN)

ATTN:STEVE MORROW BCM-RICK SACKS



Lab Number : WL-1613-23

Report Date: 11/16/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	ATRIX		SAMPLE	D BY	BY SAMPLED DATE RECEIV				
GW-39 (FILT)	А	Aqueous			T. EBNER		5	10/16/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Dissolved Chromium, Dissolved	<0.10 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010			_		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/20/95 by VM using 3010

11/16/95

LJO/ejngbp(dw) LJ20ICW2 CC: OLIN(TN)

> ATIN: STEVE MORROW BCM-RICK SACKS



Lab Number : WL-1613-24 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	м	MATRIX SAMPLED BY				SAMPLED D	LED DATE RECEIVED		
GW-39D (FILT)	A	queous		T. EBN	ER	10/13/9	5	10/16/95	
PARAMETER	RESULT	UNITIS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved Chromium, Dissolved	<0.10 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010				

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/20/95 by VM using 3010

11/16/95

LJO/ejngbp(dw) LJ20ICW2

CC: OLIN (TN)

ATTN: STEVE MORROW BCM-RICK SACKS



Lab Number : WL-1613-25

Report Date: 11/16/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	ATRIX		SAMPLE	D BY	SAMPLED I	AMPLED DATE RECEIVED 10/13/95 10/16/95 NALYZED BY NOTES			
GW-42S (FILT)	A	queous		T. EBNER 10/13		10/13/9	5	10/16/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Dissolved Chromium, Dissolved	0.39 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010					

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/20/95 by VM using 3010

11/16/95

LJO/ejngbp(dw)

CC: OLIN (TN)

ATTN: STEVE MORROW BOM-RICK SACKS



Lab Number : WL-1613-26

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY			D BY	SAMPLED I	DATE RECEIVED			
GW-43S (FILIT)	Aqueous		T. EBN	ER	10/13/95		10/16/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved Chromium, Dissolved	<0.10 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010		-		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/20/95 by VM using 3010

11/16/95

LJO/ejngbp(dw)

CC: OLIN (TN)

ATTN:STEVE MORROW BOM-RICK SACKS



Iab Number : WL-1613-27

CLIENT: DON CAMERON OLIN CHEMICALS

Report Date: 11/16/95 PO No. : SE-CH-827-VAR-C

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED				D BY	SAMPLED D	ATE	RECEIVED
GW-55S (FILT)	Aqueous		T. EBN	SR	10/13/95		10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	WEIHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved Chromium, Dissolved	7.8 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010			1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/20/95 by VM using 3010

11/16/95

₩0/ejnejn

CC: OLIN (TN)

ATTN: STEVE MORROW BCM-RICK SACKS



Lab Number : WL-1613-28

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	PATRIX		SAMPLE	D BY	SAMPLED DATE RECEIVE			
RINSE BLANK (FILT)	Д	Aqueous '			T. EBNER)5	10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved Chromium, Dissolved	<0.10 <0.015	mg/L mg/L	1.0		200.7/6010 200.7/6010			1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/20/95 by VM using 3010

11/16/95

LJO/ejngbp (dw) LJ20ICW2

CC: OLIN (TN)

ATIN: STEVE MORROW BCM-RICK SACKS



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1612-1 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY					SAMPLED DATE RECEIVED		
GW-64S (FILT)		Aqueous		R. ME	R. MEHALICK		5	10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	0.28	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1	
Arsenic, Dissolved	<0.005	mg/1	1.0	0.005	200.7/6010	11/01/95	KW	1	
Barium, Dissolved	0.014	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Calcium, Dissolved	14.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/21/95	KW	2	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/14/95	DN		
Iron, Dissolved	1.4	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Magnesium, Dissolved	2.8	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1	
Manganese, Dissolved	0.34	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Potassium, Dissolved	2.2	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1	
Silicon, Dissolved	5.3	mg/L	2.0	0.10	200.7/6010	10/19/95	KW	1	
Sodium, Dissolved	47	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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11/16/95

LJO/ejnjbb(đw)/kew LJ18ICW1

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PTI-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/18/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/16/95 by GFB using 7195



Lab Number : WL-1612-1 Report Date: 11/16/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 2 of 21

SAMPLE DESCRIPTION	M	TRIX		SAMPLED	BY	SAMPLED	DATE	RECEIVED	
GW-64S (FILT)	Ac	neone		R. MEHA	TICK	10/16/95		10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	44.	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Nitrate as N, Dissolved	0.25	mg/L	1.0	0.05	353.2/1	10/24/95	NH		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/17/95	CM		
Organic Carbon, Dissolved (DOC)	15 .	mg/L	1.0	1.0	415.1	10/31/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365. 4	10/26/95	CM	1	
Solids-Filt Residue, Dissolved	220.	mg/L	1.0	10	160.1	10/19/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PTI-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/26/95 by CLM

⁽²⁾ Sample Preparation on 10/18/95 by JF



Lab Number : WL-1612-2 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 3 of 21

SAMPLE DESCRIPTION		MATRIX SAMPLED BY			ED BY	SAMPLED D	DATE RECEIVED			
GW-64D (FILT)		Aqueous		R. ME	HALICK	10/16/95		10/16/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1		
Arsenic, Dissolved	0.014	mg/l	1.0	0.005	200.7/6010	11/01/95	KW	1		
Barium, Dissolved	0.093	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1		
Calcium, Dissolved	110	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1		
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1		
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/21/95	KW	2		
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/14/95	DN			
Iron, Dissolved	70	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1		
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1		
Magnesium, Dissolved	31.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1		
Manganese, Dissolved	2.2	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1		
Potassium, Dissolved	11	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1		
Silicon, Dissolved	8.8	mg/L	2.0	0.10	200.7/6010	10/19/95	KW	1		
Sodium, Dissolved	210	mg/L	5.0	0.10	200.7/6010	10/20/95	KW	1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)/kew LJ18ICW1

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PTI-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/18/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/16/95 by GFB using 7195



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1612-2 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	YTRIX		SAMPLED	SAMPLED BY SAMPLED DATE RECEIV				
GW-64D (FILT)	Ac	jueous		R. MEHA	TICK	10/16/	95	10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	90.	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Carbonate, Dissolved as CaCC3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/24/95	NH		
Nitrite as N, Dissolved	0.11	mg/L	1.0	0.050	353.2	10/17/95	CM		
Organic Carbon, Dissolved (DOC)	7.4	mg/L	1.0	1.0	415.1	10/31/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1	
Solids-Filt Residue, Dissolved	1300.	mg/L	1.0	10	160.1	10/19/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb (đw)

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PIT-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/26/95 by CLM

⁽²⁾ Sample Preparation on 10/18/95 by JF



Lab Number : WL-1612-3 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
CLIN CHEMICALS
51 FAMES STREET

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	DATE RECEIVED		
GW-62S (FILIT)		Aqueous		R. ME	HALICK	10/16/9	5	10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1	
Arsenic, Dissolved	0.028	mg/l	1.0	0.005	200.7/6010	11/01/95	KW	1	
Barium, Dissolved	0.025	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Calcium, Dissolved	37.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/21/95	KW	2	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/14/95	DN		
Iron, Dissolved	20	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Magnesium, Dissolved	5.7	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1	
Manganese, Dissolved	4.8	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1	
Potassium, Dissolved	10	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1	
Silicon, Dissolved	6.9	mg/L	2.0	0.10	200.7/6010	10/19/95	KW	1	
Sodium, Dissolved	31	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)/kew LJ18ICW1

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PTI-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/18/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/16/95 by GFB using 7195



Lab Number : WL-1612-3 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS

51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 13 of 21

SAMPLE DESCRIPTION	M	YTRIX		SAMPLED	BY	SAMPLED	DATE RECEIVED		
GW-62S (FILIT)	Ac	jueous		R. MEHA	TICK	10/16/95		10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZEI	BY	NOTES	
Bicarbonate, Dissolved as HCCC3	93.	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/24/95	NH		
Nitrite as N, Dissolved	0.11	mg/L	1.0	0.050	353.2	10/17/95	CM		
Organic Carbon, Dissolved (DOC)	6.6	mg/L	1.0	1.0	415.1	10/31/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1	
Solids-Filt Residue, Dissolved	260.	mg/L	1.0	10	160.1	10/19/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PTI-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/26/95 by CLM

⁽²⁾ Sample Preparation on 10/18/95 by JF



Lab Number: WL-1612-4 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	SAMPLED DATE RECEIVED		
GW-62D (FILT)		Aqueous		R. ME	R. MEHALICK		5	10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1	
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/01/95	KW	1	
Barium, Dissolved	0.018	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Calcium, Dissolved	38.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/21/95	DN	2	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/14/95	DN		
Iron, Dissolved	0.11	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Magnesium, Dissolved	12.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1	
Manganese, Dissolved	1.6	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Potassium, Dissolved	2.2	mg/L	1.0	0.50	200.7/6010	10/20/95	KW	1	
Silicon, Dissolved	4.6	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1	
Sodium, Dissolved	46	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)/kew LJ18ICW1

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PTI-CHRIS SELLSTONE

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⁽¹⁾ Sample Preparation on 10/18/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/16/95 by GFB using 7195



Lab Number : WL-1612-4 Report Date: 11/16/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	YTRIX		SAMPLED	RECEIVED			
GW-62D (FILIT)	Ac	jueous		R. MEHA	TICK	10/16/9	95	10/16/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	ВУ	NOTES
Bicarbonate, Dissolved as HCO3	64.	mg/L	1.0	20	APHA 406C	10/17/95	QM.	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	0.39	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/17/95	CM	
Organic Carbon, Dissolved (DOC)	2.3	mg/L	1.0	1.0	415.1	10/31/95	LT	
Phosphorus, Dissolved as P	<1.0	mg/L	10	0.10	365.4	10/26/95	CM	1,2
Solids-Filt Residue, Dissolved	370.	mg/L	1.0	10	160.1	10/19/95	JF	3

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PTI-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/26/95 by CIM

⁽²⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ Sample Preparation on 10/18/95 by JF



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1612-5 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

Page 16 of 21

SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED I	RECEIVED		
GW-62BR (FILT)	Aqueous		R. ME	FALICK	10/16/95		10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Dissolved	<0.005	mg/1	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Dissolved	0.016	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Calcium, Dissolved	440	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/21/95	DN	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/14/95	DN	
Iron, Dissolved	6.2	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Dissolved	320	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1
Manganese, Dissolved	42	mg/L	5.0	0.005	200.7/6010	10/30/95	KW	1
Potassium, Dissolved	34	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1
Silicon, Dissolved	11	mg/L	5.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Dissolved	1900	mg/L	50	0.10	200.7/6010	10/20/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)/kew LJ18ICWl

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PII-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/18/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/16/95 by GFB using 7195



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-1612-5 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 RAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 17 of 21

SAMPLE DESCRIPTION	M	TRIX		SAMPLED	AMPLED BY SAMPLED DATE RECE				
GW-62BR (FILT)	Ac	lueous		R. MEHA	TICK	10/16/95		10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	430.	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/24/95	NH		
Nitrite as N, Dissolved	0.051	mg/L	1.0	0.050	353.2	10/17/95	CM		
Organic Carbon, Dissolved (DOC)	26.	mg/L	1.0	1.0	415.1	11/03/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1	
Solids-Filt Residue, Dissolved	8000.	mg/L	5.0	10	160.1	10/20/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PII-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/26/95 by CLM

⁽²⁾ Sample Preparation on 10/19/95 by JF



Lab Number: WL-1612-6 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY SAMPLED DATE RECEI				MATRIX SAMPLED BY				
GW-58S (FILT)		Aqueous		R. ME	R. MEHALICK		10/16/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1	
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/01/95	KW	1	
Barium, Dissolved	0.021	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Calcium, Dissolved	11.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/21/95	DN	2	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/14/95	DN		
Iron, Dissolved	0.036	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Magnesium, Dissolved	1.9	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1	
Manganese, Dissolved	0.16	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Potassium, Dissolved	2.6	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1	
Silicon, Dissolved	4.7	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1	
Sodium, Dissolved	76	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)/kew LJ18ICW1

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PII-CHRIS SELLSTONE

> P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 10/18/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/16/95 by GFB using 7195



Lab Number: WL-1612-6 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
CLIN CHEMICALS
51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	YTRIX		SAMPLED	BY	SAMPLED I	ATE	RECEIVED
GW-58S (FILIT)	Ac	queous		R. MEHA	TTCK	HOD ANALYZED BY N A 406C 10/17/95 CM A 406C 10/17/95 CM		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	29.	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	2.1	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/17/95	CM	
Organic Carbon, Dissolved (DOC)	1.6	mg/L	1.0	1.0	415.1	11/03/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	260.	mg/L	1.0	10	160.1	10/19/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PII-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/26/95 by CLM

⁽²⁾ Sample Preparation on 10/18/95 by JF



Iab Number : WL-1612-7 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	SAMPLED DATE RECEIVE		
GW-58D (FILT)	Aqueous		R. ME	R. MEHALICK		5	10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.55	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Dissolved	0.007	mg/1	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Dissolved	0.009	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Calcium, Dissolved	240	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1
Chromium, Dissolved	0.023	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/21/95	KW	2
Chromium, Trivalent Dissolved	0.023	mg/L	1.0	0.015	Calculation	11/14/95	DN	
Iron, Dissolved	77	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Dissolved	85.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	. 1
Manganese, Dissolved	30	mg/L	5.0	0.005	200.7/6010	10/30/95	KW	1
Potassium, Dissolved	28	mg/L	1.0	0.50	200.7/6010	10/16/95	KW	1
Silicon, Dissolved	12	mg/L	3.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Dissolved	1100	mg/L	20	0.10	200.7/6010	10/20/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

1,4.

11/16/95

LJO/ejnjbb(dw)/kew LJ18ICW1

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PII-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/18/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/16/95 by GFB using 7195



Lab Number : WL-1612-7 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 21 of 21

SAMPLE DESCRIPTION	M				BY	SAMPLED DATE		RECEIVED	
GW-58D (FILT)	Ac				LICK			10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	92.	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Carbonate, Dissolved as CaCC3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/24/95	NH		
Nitrite as N, Dissolved	0.074	mg/L	1.0	0.050	353.2	10/17/95	CM		
Organic Carbon, Dissolved (DOC)	47.	mg/L	1.0	1.0	415.1	11/03/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1	
Solids-Filt Residue, Dissolved	4500.	mg/L	4.0	10	160.1	10/19/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PTI-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/26/95 by CLM

⁽²⁾ Sample Preparation on 10/18/95 by JF



Iab Number : WL-1612-8 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

51 EAMES STREET WILMINGTON, MA 01887

OLIN CHEMICALS

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPLE	SAMPLED BY		ATE	E RECEIVED	
GW-64S (UNFILIT)	Aqueous			R. MEH	R. MEHALICK		5	10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total	0.41	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1	
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1	
Barium, Total	0.014	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Calcium, Total	14.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1	
Chromium, Total	<0.015	mg/L	1.0		200.7/6010		KW	1	
Iron, Total	1.4	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1	
Iead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Magnesium, Total	2.6	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1	
Manganese, Total	0.34	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Potassium, Total	2.4	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1	
Silicon, Total	5.5	mg/L	2.0	0.10	200.7/6010	10/19/95	KW	1	
Sodium, Total	46	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw)/kew LJ18ICW1

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PII-CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

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CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-1612-9 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	ŀ				R. MEHALICK		SAMPLED DATE RECEIVED		
GW-64D (UNFILT)	7						5	10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/30/95	KW	1	
Arsenic, Total	0.014	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1	
Barium, Total	0.076	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Calcium, Total	120	mg/L	1.0	0.050	200.7/6010	11/01/95	Œ	1	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1	
Iron, Total	65	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1	
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Magnesium, Total	33.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1	
Manganese, Total	2.6	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1	
Potassium, Total	12	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1	
Silicon, Total	8.9	mg/L	2.0	0.10	200.7/6010	10/19/95	KW	1	
Sodium, Total	220	mg/L	5.0	0.10	200.7/6010	10/20/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw)/kew LJ18ICW1

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PTI-CHRIS SELLSTONE



Lab Number : WL-1612-10 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY S				SAMPLED DATE RECEIVED			
GW-62S (UNFILIT)	Aqueous			R. MEHALICK		10/16/95		10/16/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/30/95	KW	1
Arsenic, Total	0.025	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Total	0.024	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Calcium, Total	35.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Iron, Total	17.	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Total	5.3	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	5.0	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1
Potassium, Total	9.8	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1
Silicon, Total	6.5	mg/L	2.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Total	30	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw)/kew

CC: OLIN-TIN STEVE MORROW SMITH ENG R. SACKS PII-CHRIS SELLSTONE

> P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400



Lab Number : WL-1612-11

Report Date: 11/16/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAN			SAMPLE	D BY	SAMPLED D	ATE	RECEIVED
GW-62D (UNFILIT)	Aqueous			R. MEH	ALICK	10/16/95		10/16/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/30/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Total	0.023	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Calcium, Total	46.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Iron, Total	0.081	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Total	14.	mg/L	1.0		200.7/6010		KW	1
Manganese, Total	1.7	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Potassium, Total	3.0	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1
Silicon, Total	4.8	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Total	54	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejnjbb (dw) /kew LJ18ICW1

CC: CLIN-TN STEVE MORROW SMITH ENG R. SACKS PIT-CHRIS SELLSTONE

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P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400



Lab Number : WL-1612-12 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY S				SAMPLED DATE RECEIV				
GW-62BR (UNFILIT)	2	Aqueous			R. MEHALICK		5	10/16/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/30/95	KW	1	
Arsenic, Total	0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1	
Barium, Total	0.019	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Calcium, Total	470	mg/L	1.0	0.050	200.7/6010	11/01/95	Œ	1	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1	
Iron, Total	6.4	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1	
Lead, Total	0.007	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1	
Magnesium, Total	350	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1	
Manganese, Total	45	mg/L	5.0	0.005	200.7/6010	10/30/95	KW	1	
Potassium, Total	38	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1	
Silicon, Total	12	mg/L	3.0	0.10	200.7/6010	10/19/95	KW	1	
Sodium, Total	2100	mg/L	50	0.10	200.7/6010	10/20/95	KW	1	

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(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejnjbb (đw) /kew LJ18ICW1

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PTI-CHRIS SELLSTONE

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Lab Number : WL-1612-13

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED				AMPLE DESCRIPTION MATRIX SAMPLED BY		D BY	SAMPLED DATE RECEIVED			
GW-58S (UNFILIT)	Α.	Aqueous			R. MEHALICK		5	10/16/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES			
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/30/95	KW	1			
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1			
Barium, Total	0.025	mg/L	1.0	0.005	200.7/6010	11/01/95	Œ	1			
Calcium, Total	11.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1			
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1			
Iron, Total	0.040	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1			
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1			
Magnesium, Total	1.8	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1			
Manganese, Total	0.17	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1			
Potassium, Total	2.9	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1			
Silicon, Total	4.7	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1			
Sodium, Total	78	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw)/kew LJ18ICW1 CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PTI-CHRIS SELLSTONE



Lab Number: WL-1612-14 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPLE	D BY	SAMPLED D	RECEIVED	
GW-58D (UNFILT)	Aqueous			R. MEH	ALICK	10/16/95		10/16/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.63	mg/L	1.0	0.10	200.7/6010	10/30/95	KW	1
Arsenic, Total	0.008	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Total	0.009	mg/L	1.0	0.005	200.7/6010	11/01/95	ŒB	1
Calcium, Total	250	mg/L	1.0	0.050	200.7/6010	11/01/95	ŒB	1
Chromium, Total	0.023	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Iron, Total	75	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Total	89.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	31	mg/L	5.0	0.005	200.7/6010	10/30/95	KW	1
Potassium, Total	27	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1
Silicon, Total	12	mg/L	3.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Total	1100	mg/L	20	0.10	200.7/6010	10/20/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw)/kew

CC: OLIN-TN STEVE MORROW SMITH ENG R. SACKS PII-CHRIS SELLSTONE

Field Identification: GW-80S (FILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Viscosity, dissolved (cpoise)	3.0		45663-001	10/16/95		D3245-85
Chloride, dissolved (mg/L)	15	1	45663-010	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	5	1	45663-010	10/13/95	666A	300.0/1
Bromide, dissolved (mg/L)	1	1	45663-010	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.16	0.02	45663-010	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.22	0.005	45663-020	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	6	1	45663-030	10/13/95	310	376.1/1

Field Identification: GW-80D (FILT)

Matrix: WATER

		Reporting		Date	QC		
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.	
Viscosity, dissolved (cpoise)	3.5		45663-002	10/16/95		D3245-85	
Chloride, dissolved (mg/L)	100	1	45663-011	10/16/95	763	325.1/1	
Sulfate, dissolved (mg/L)	2	1	45663-011	10/13/95	666A	300.0/1	
Bromide, dissolved (mg/L)	2	1	45663-011	10/13/95	666A	300.0/1	
Ortho Phosphate, dissolved (mg/L as P)	0.29	0.02	45663-011	10/13/95	201	365.2/1	
Ammonia-N, dissolved (mg/L as N)	0.32	0.01	45663-021	10/13/95	582	350.2/1	
Sulfide, dissolved (mg/L)	BOL	1	45663-031	10/13/95	310	376.1/1	

Field Identification: GW-80BR (FILT)

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Viscosity, dissolved (cpoise)	3.0		45663-003	10/16/95		D3245-85
Chloride, dissolved (mg/L)	210	1	45663-012	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	4	1	45663-012	10/13/95	666A	300.0/1
Bromide, dissolved (mg/L)	3	1	45663-012	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.12	0.02	45663-012	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	2.9	0.05	45663-022	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	BOL	1	45663-032	10/13/95	310	376.1/1



Field Identification: GW-808R (FILT/DUP)

Matrix: WATER

	Reporting			Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Viscosity, dissolved (cpoise)	3.0	•	45663-004	10/16/95		D3245-85
Chloride, dissolved (mg/L)	210	1	45663-013	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	4	1	45663-013	10/13/95	666A	300.0/1
Bromide, dissolved (mg/L)	3	1	45663-013	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.09	0.02	45663-013	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	3.3	0.05	45663-023	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	SDL	1	45663-033	10/13/95	310	376.1/1

Field Identification: GW-80BR (FILT/MS)

Matrix: WATER

	Reporting			Date	QC		
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.	
Chloride, dissolved (mg/L)	260	1	45663-014	10/16/95	763	325.1/1	
Sulfate, dissolved (mg/L)	13	1	45663-014	10/13/95	666A	300.0/1	
Bromide, dissolved (mg/L)	11	1	45663-014	10/13/95	666A	300.0/1	
Ortho Phosphate, dissolved (mg/L as P)	0.56	0.02	45663-014	10/13/95	201	365.2/1	
Ammonia-N, dissolved (mg/L as N)	5.5	0.05	45663-024	10/13/95	582	350.2/1	
Sulfide, dissolved (mg/L)	41	1	45663-034	10/13/95	310	376.1/1	

Field Identification: GW-81D (FILT)

	Reporting			Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Viscosity, dissolved (cpoise)	3.0		45663-006	10/16/95		D3245-85
Chloride, dissolved (mg/L)	2	1	45663-015	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	6	1	45663-015	10/13/95	666A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45663-015	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.03	0.02	45663-015	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.20	0.05	45663-025	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45663-035	10/13/95	310	376.1/1



Field Identification: FIELD REP (FILT)

Matrix: WATER

	Reporting			Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Viscosity, dissolved (cpoise)	2.5		45663-007	10/16/95		D3245-85
Chloride, dissolved (mg/L)	2	1	45663-016	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	6	1	45663-016	10/13/95	666A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45663-016	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.03	0.02	45663-016	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.21	0.05	45663-026	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	BOL	1	45663-036	10/13/95	310	376.1/1

Field Identification: GW-65BR (FILT)

Matrix: WATER

	Reporting			Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Viscosity, dissolved (cpoise)	3.2		45663-008	10/16/95		D3245-85
Chloride, dissolved (mg/L)	27	1	45663-018	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	200	5	45663-018	10/17/95	667A	300.0/1
Bromide, dissolved (mg/L)	BOL	1	45663-018	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.03	0.02	45663-018	10/13/95	201	365.2/1
Ammonia-W, dissolved (mg/L as W)	0.37	0.05	45663-028	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45663-038	10/13/95	310	376.1/1

Field Identification: GW-81BR (FILT)

	Reporting			Date	QC	
Parameter	Resul t	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Viscosity, dissolved (cpoise)	3.0		45663-009	10/16/95		D3245-85
Chloride, dissolved (mg/L)	45	1	45663-019	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	55	1	45663-019	10/13/95	666A	300.0/1
Bromide, dissolved (mg/L)	BOL	1	45663-019	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45663-019	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.09	0.05	45663-029	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	BOL	1	45663-039	10/13/95	310	376.1/1



Field Identification: GW-300 (FILT)

Matrix: WATER

	Reporting			Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	BDL	1	45663-017	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	2	1	45663-017	10/13/95	666A	300.0/1
Bromide, dissolved (mg/L)	BOL	1	45663-017	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BOL	0.02	45663-017	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.07	0.05	45663-027	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	BOL	1	45663-037	10/13/95	310	376.1/1

Field Identification: GW-80S (UNFILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed		Method/Ref.
Ammonia-N (mg/L as N)	0.20	0.005	45663-040	10/13/95		350.2/1

Field Identification: GW-800 (UNFILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed		Method/Ref.
Ammonia-N (mg/L as N)	0.27	0.01	45663-041	10/13/95		350.2/1

Field Identification: GW-808R (UNFILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed		Method/Ref.
Ammonia-N (mg/L as N)	2.8	0.05	45663-042	10/16/95		350.2/1

Field Identification: GW-808R (UNFILT/DUP)

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed		Method/Ref.
Ammonia-N (mg/L as N)	3.0	0.05	45663-043	10/16/95		350.2/1



Field Identification: GW-80BR (UNFILT/MS)

Matrix: WATER

Field Identification: da-pook (Dartri/H3)			NECTAL BOILD				
Parameter		Reporting Limit	Lab No.	-		Method/Ref.	
Ammonia-W (mg/L as W)			45663-044	10/16/95		350.2/1	
Field Identification: GW-81D (UNFILT)			Matrix: WAT	TER			
Parameter	Result	Reporting Limit		· -			
Ammonia-N (mg/L as N)			45663-045				
Field Identification: FIELD REP (UNFIL	Τ)		Matrix: WAT	ER			
Parameter	Result	Reporting Limit	Lab No.	•	Batch		
Ammonia-W (mg/L as W)			45663-046				
Field Identification: GW-300 (UNFILT)			Matrix: WAT	ER			
Parameter	Result	<i>Reporting</i> Limit	Lab No.	Date Analyzed	<i>ec</i> Batch	Method/Ref.	
Ammonia-N (mg/L as N)	BOL	0.05	45663-047	10/13/95	582	350.2/1	
Field Identification: GW-65BR (UNFILT)			Matrix: WAT	ER			
Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.	
ummonia-W (mg/L as W)	0.47	0.05	456 6 3-048	10/16/95	583	350.2/1	
Field Identification: GW-81BR (UNFILT)			Matrix: WAT	ER			
Paramet <i>er</i>	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.	
Ammonia-N (mg/L as N)	0.13	0.05	45663-049	10/16/95		350.2/1	

References: 1) 40 CFR Part 136, Friday, October 26, 1984





Lab Number : WL-1595-1 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 1 of 50

SAMPLE DESCRIPTION	MATRIX SAMPLED BY			SAMPLED DATE RECEIVED				
GW-80S (UNFILIT)	Aqueous		T. EBN	T. EBNER		5	10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	17.	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1
Antimony, Total	0.006	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	0.054	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	0.25	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	74.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Total	0.068	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	0.080	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	100.	mg/L	10	0.025	200.7/6010	10/28/95	KW	1
Lead, Total	0.40	mg/L	1.0	0.005	200.7/6010	10/26/95	K₩	1
Magnesium, Total	6.4	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	2.4	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Total	0.58	μg/L	1.0	0.20	245.1	10/26/95	ΊŁ	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATTN:STEVE MORROW
SMITH/BOM-RICK SACKS
PIT/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-1595-1 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS
51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 2 of 50

SAMPLE DESCRIPTION	MATRIX		SAMPLE	D BY	BY SAMPLED DATE			
GW-80S (UNFILIT)	4	dneone		T. EBN	T. EBNER 10/12/95		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Total	8.2	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Total	47.	mg/L	10	0.10	200.7/6010	10/18/95	KW	1
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Total	10.	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Total	0.074	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Total	0.39	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

IJO/ejnjbb(dw) IJ17ICW1

CC: OLIN-TN

ATIN:STEVE MORROW SMITH/BOM-RICK SACKS PII/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400



Lab Number : WL-1595-2 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 3 of 50

SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
GW-80D (UNFILT)	Д	Aqueous		T. EBN	T. EBNER		5	10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total	0.13	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1	
Antimony, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1	
Arsenic, Total	0.023	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1	
Barium, Total	0.041	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1	
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1	
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1	
Calcium, Total	86.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1	
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1	
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1	
Iron, Total	45	mg/L	5.0	0.025	200.7/6010	10/30/95	KW	1	
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1	
Magnesium, Total	11.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1	
Manganese, Total	7.0	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1	
Mercury, Total	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 CC: OLIN-TN

ATIN:STEVE MORROW
SMITH/BOM-RICK SACKS
PTI/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number : WL-1595-2 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 4 of 50

SAMPLE DESCRIPTION	P	MATRIX SAMPLED BY		SAMPLED D	ATE	RECEIVED		
GW-80D (UNFILIT)	,	Aqueous		T. EBNER		10/12/95		10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Total	7.6	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Total	18.	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Total	51.	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

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(1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATIN:STEVE MORROW SMITH/BOM-RICK SACKS PII/CHRIS SELLSTONE



Lab Number : WL-1595-3 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
CLIN CHEMICALS
51 EAMES STREET

51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 5 of 50

SAMPLE DESCRIPTION	MATRIX SAMPLED BY			D BY	SAMPLED DATE RECEIVED			
GW-80BR (UNFILT)	Aqueous		T. EBN	T. EBNER		5	10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOIES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1
Antimony, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	0.012	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	0.068	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	170	mg/L	5.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	29	mg/L	5.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Total	20	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	11.	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Total	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2

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11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number: WL-1595-3

Report Date: 11/16/95 PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET

CLIENT: DON CAMERON

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 6 of 50

SAMPLE DESCRIPTION	MATRIX SAMPLE				D BY	SAMPLED D	ATE	TE RECEIVED			
GW-80BR (UNFILT)	Ą	queous		T. EBN	T. ERNER 10/12/95		5	10/12/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES			
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1			
Potassium, Total	5.9	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1			
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1			
Silicon, Total	18.	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1			
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1			
Sodium, Total	56.	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1			
Thallium, Total	0.012	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1			
Vanadium, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1			
Zinc, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: CLIN-IN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE



Lab Number : WL-1595-4

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPI			SAMPLE	D BY	SAMPLED D	ATE	RECEIVED
GW-80BR (UNFILT/MS)	Ą	Aqueous		T. EBN	T. EBNER		5	10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	1.97	mg/L	2.0	0.10	200.7/6010	10/28/95	KW	1
Antimony, Total	0.497	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	2.04	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	2.00	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	0.049	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	0.049	mg/L	2.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	163.	mg/L	2.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Total	0.186	mg/L	2.0	0.015	200.7/6010	10/24/95	KW	1
Cobalt, Total	0.514	mg/L	2.0	0.030	200.7/6010	10/24/95	КW	1
Copper, Total	0.244	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	29.5	mg/L	2.0	0.025	200.7/6010	10/28/95	KW	1
Lead, Total	0.492	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Total	24.7	mg/L	2.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	10.6	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Total	2.23	μg/L	1.0	0.20	245.1	10/26/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 CC: OLIN-TN

> ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number : WL-1595-4

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET

CLIENT: DON CAMERON

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 8 of 50

SAMPLE DESCRIPTION	MATRIX S			SAMPLE	D BY	SAMPLED I	RECEIVED		
GW-80BR (UNFILT/MS)	<u></u> -	Aqueous		T. EEN	er.	10/12/95		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Nickel, Total	0.501	mg/L	2.0	0.040	200.7/6010	10/24/95	KW	1	
Potassium, Total	29.5	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1	
Selenium, Total	1.96	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1	
Silicon, Total	19.3	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1	
Silver, Total	0.047	mg/L	2.0	0.015	200.7/6010	10/24/95	KW	1	
Sodium, Total	61.4	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1	
Thallium, Total	1.95	mg/L	2.0	0.010	200.7/6010	10/24/95	KW	1	
Vanadium, Total	0.516	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1	
Zinc, Total	0.503	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE



Lab Number: WL-1595-5 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 9 of 50

SAMPLE DESCRIPTION	MATRIX SAMPLED BY			D BY	SAMPLED DATE RECEIVED			
GW-80BR (UNFILIT/DUP)	Aqueous		T. EBN	T. EBNER		5	10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1
Antimony, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	0.012	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	0.063	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	156.	mg/L	5.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	27.1	mg/L	5.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Total	19.8	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	9.51	mg/L	2.0	0.005	200.7/6010	10/27/95	KW	1
Mercury, Total	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 CC: OLIN-TN

> ATTIN: STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number: WL-1595-5

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 10 of 50

SAMPLE DESCRIPTION	MATRIX			SAMPLE	D BY	SAMPLED D	ATE	RECEIVED
GW-80BR (UNFILT/DUP)	Aqueous		T. EBN	ER	10/12/95		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Total	5.92	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Total	16.1	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Total	52.4	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Total	0.015	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 CC: OLIN-TN

> ATTIN: STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number: WL-1595-6 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 11 of 50

SAMPLE DESCRIPTION	MATRIX SAMPLED BY			SAMPLED DATE RECEIVED				
FIELD REP (UNFILT)	Ą	queous		T. EBNER		10/12/95		10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	1.1	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1
Antimony, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	0.014	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	22.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	0.035	mg/L	1.0	0.025	200.7/6010	10/28/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	ı
Magnesium, Total	0.13	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	0.012	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Total	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 · CC: CLIN-TN

> AT'IN: STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

An Equal Opportunity Employer P.O. Box 720 - 340 County Road #5

Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number : WL-1595-6

Report Date: 11/16/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 12 of 50

SAMPLE DESCRIPTION	MATRIX			SAMPLE	D BY	SAMPLED D	ATE	RECEIVED
FIELD REP (UNFILIT)	Aquecus '			T. EBN	ER	10/12/9	10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Total	0.96	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Total	3.0	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Total	2.4	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATIN:STEVE MORROW SMITH/BCM-RICK SACKS PII/CHRIS SELLSTONE

An Equal Opportunity Employer

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400



Lab Number : WL-1595-7 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 13 of 50

SAMPLE DESCRIPTION	MATRIX SAMPLED BY SAMP					SAMPLED D	RECEIVED	
GW-300 (UNFILT)	А	Aqueous		T. EBNER		10/12/95		10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1
Antimony, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	0.052	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/28/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Total	<0.050	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Total	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 CC: OLIN-TN

> ATTN:STEVE MORROW SMITH/BCM-RICK SACKS PTI/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number: WL-1595-7

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	P.	ATRIX		SAMPLE	D BY	SAMPLED DATE		RECEIVED	
GW-300 (UNFILIT)	P	Aqueous T. EBNER		10/12/95		10/12/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1	
Potassium, Total	<0.50	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1	
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1	
Silicon, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1	
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1	
Sodium, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1	
Thallium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1	
Vanadium, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1	
Zinc, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 CC: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE



Lab Number: WL-1595-8 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET

CLIENT: DON CAMERON

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	<u></u>	MATRIX SAMPLED BY			SAMPLED D	RECEIVED			
GW-81D (UNFILIT)	P	Aqueous		T. EBN	T. EBNER		5	10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total	1.0	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1	
Antimony, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1	
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1	
Barium, Total	0.014	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1	
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1	
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1	
Calcium, Total	20.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1	
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1	
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1	
Iron, Total	0.043	mg/L	1.0	0.025	200.7/6010	10/28/95	KW	1	
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1	
Magnesium, Total	0.12	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1	
Manganese, Total	0.008	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1	
Mercury, Total	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATIN:STEVE MORROW SMITH/BOM-RICK SACKS PIT/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-8 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	MATRIX SAMPLED BY S				SAMPLED I	DATE	RECEIVED
GW-81D (UNFILIT)	Α	Aqueous		T. EBN	T. EBNER)5	10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Total	0.56	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Total	2.8	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Total	2.3	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE



Lab Number : WL-1595-9 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	MATRIX SAMPLED BY				SAMPLED D	RECEIVED	
GW-65BR (UNFILT)		Aqueous		T. EBN	T. EBNER		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.20	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	0.21	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	25.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/30/95	KW	1
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	0.12	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Total	0.50	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	0.007	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Total	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICWL

CC: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number : WL-1595-9 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 18 of 50

SAMPLE DESCRIPTION	MATRIX SAMPLED BY				D BY	SAMPLED DATE RECEIVED			
GW-65BR (UNFILT)	Aqueous		T. EBNER		10/12/95		10/12/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	ЮW	1	
Potassium, Total	370.	mg/L	10	0.50	200.7/6010	10/18/95	KW	1	
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1	
Silicon, Total	16.	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1	
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1	
Sodium, Total	120.	mg/L	10	0.10	200.7/6010	10/18/95	KW	1	
Thallium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1	
Vanadium, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1	
Zinc, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

LJO/ejnjbb (dw)
LJ171CW1
CC: OLIN-TN
ATTN:STRVE MOR

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PIT/CHRIS SELLSTONE



Lab Number : WL-1595-10 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY SAMPLED				SAMPLED D	ATE	RECEIVED	
GW-81BR (UNFILT)	P	dreare		T. EBN	er	10/12/9	5	10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.27	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	0.068	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	37.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/30/95	KW	1
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	0.63	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Total	0.011	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Total	4.2	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	0.078	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Total	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PII/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number : WL-1595-10 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 20 of 50

SAMPLE DESCRIPTION	M	MATRIX SAMPLED BY		SAMPLED DATE RECEIVE				
GW-81BR (UNFILT)	Aqueous '		T. EBNER		10/12/95		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Total	18.	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Total	7.2	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Total	42.	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Total	0.033	mg/L	1.0	0.025	200.7/6010	10/24/95	KM	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 CC: OLIN-TN

> ATIN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE



Lab Number : WL-1595-11 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	RECEIVED	
GW-80S (FILT)		Aqueous		T. EBNER		10/12/95		10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.60	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	0.022	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.080	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	59.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	64.	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	0.030	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	3.3	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/12/95 by GFB using 7195



Lab Number : WL-1595-11 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 22 of 50

SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	AMPLED DATE RECE	
GW-80S (FILT)		Aqueous			T. EBNER		10/12/95 1	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	1.7	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Dissolved	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	5.5	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	13.	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	8.0	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	0.036	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 CC: OLIN-TN

> ATIN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number : WL-1595-11 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 23 of 50

SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED D	ATE	RECEIVED	
GW-80S (FILT)	Ac	ueous		T. EBNE	10/12/95		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	240.	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	0.14	mg/L	1.0	0.050	353.2	10/13/95	CM	
Organic Carbon, Dissolved (DOC)	63.	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	320.	mg/L	2.0	10	160.1	10/17/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN

ATIN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/26/95 by CIM

⁽²⁾ Sample Preparation on 10/16/95 by JF



Lab Number : WL-1595-12 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 24 of 50

SAMPLE DESCRIPTION	MATRIX			SAMPLED BY		SAMPLED DATE		E RECEIVED	
GW-80D (FILT)		Aqueous	B	T. EB	NER	10/12/95		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	WEIHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1	
Antimony, Dissolved	<0.005	mg/L	1.0		200.7/6010	10/24/95	KW	1	
Arsenic, Dissolved	0.014	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1	
Barium, Dissolved	0.026	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1	
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1	
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1	
Calcium, Dissolved	58.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN		
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1	
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1	
Iron, Dissolved	29.	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1	
Magnesium, Dissolved	7.4	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 CC: OLIN-TN

ATIN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/12/95 by GFB using 7195



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-12 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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AMPLE DESCRIPTION MATRIX SAMPLED BY			ED BY	SAMPLED D	ATE	RECEIVED		
GW-80D (FILT)		Aqueous			T. EBNER		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	4.6	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Dissolved	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	4.7	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	11.	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	33.	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICWI CC: OLIN-TN

ATIN:STEVE MORROW
SMITH/BOM-RICK SACKS
PTI/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number: WL-1595-12

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED	BY	SAMPLED I	RECEIVED	
GW-80D (FILT)	Ac	Aqueous T. EBNER			R	10/12/95		10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	270.	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCC3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	0.10	mg/L	1.0	0.050	353.2	10/13/95	CM	
Organic Carbon, Dissolved (DOC)	60.	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	0.27	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	490.	mg/L	2.0	10	160.1	10/17/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN

AT'IN: STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/26/95 by CLM

⁽²⁾ Sample Preparation on 10/16/95 by JF



Lab Number : WL-1595-13 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS

51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 27 of 50

SAMPLE DESCRIPTION		MATRIX			SAMPLED BY		SAMPLED DATE	
GW-80BR (FILT)		Aqueous	1	T. EB	NER	10/12/95		10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	0.010	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.061	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	140	mg/L	2.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	26.	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	19.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICWI

CC: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/12/95 by GFB using 7195



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-13

Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIN CHEMICALS
51 EAMES STREET

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 28 of 50

SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED DATE RECEIVE			
GW-80BR (FILIT)		Aqueous	1	T. EBNER		10/12/95		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Manganese, Dissolved	9.8	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1	
Mercury, Dissolved	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2	
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1	
Potassium, Dissolved	5.5	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1	
Selenium, Dissolved	0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1	
Silicon, Dissolved	16.	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1	
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1	
Sodium, Dissolved	50.	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1	
Thallium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1	
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1	
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TIN
ATTIN:STEVE MORROW
SMITH/BOM-RICK SACKS
PIT/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number : WL-1595-13

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 29 of 50

SAMPLE DESCRIPTION	M	YIRIX		SAMPLED	BY	SAMPLED I	RECEIVED		
GW-80BR (FILIT)	Ac	Aqueous T. ERNER			R	10/12/95		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	380.	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Carbonate, Dissolved as CaCC3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/24/95	NH		
Nitrite as N, Dissolved	0.070	mg/L	1.0	0.050	353.2	10/13/95	CM		
Organic Carbon, Dissolved (DOC)	95.	mg/L	1.0	1.0	415.1	10/17/95	LT		
Phosphorus, Dissolved as P	0.23	mg/L	1.0	0.10	365.4	10/26/95	CM	1	
Solids-Filt Residue, Dissolved	1000.	mg/L	1.0	10	160.1	10/17/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN

AITN: STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/26/95 by CLM

⁽²⁾ Sample Preparation on 10/16/95 by JF



Lab Number : WL-1595-14

Report Date: 11/16/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 30 of 50

SAMPLE DESCRIPTION MATRIX SAMPLED				ED BY	SAMPLED D	ATE	RECEIVED	
GW-80BR (FILT/MS)		Aqueous			NER	10/12/95		10/12/95
PARAMETER	RESULT	UNTTS	DF	*PQL	WEITHOO	ANALYZED	BY	NOTES
Aluminum, Dissolved	2.13	mg/L	2.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	0.525	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	2.17	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	2.15	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	0.051	mg/L	2.0	0,005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	0.050	mg/L	2.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	175.	mg/L	2.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Dissolved	0.204	mg/L	2.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.030	mg/L	2.0	0.015	6010	10/20/95	KW	2,3
Chramium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	11/07/95	DN	4
Cobalt, Dissolved	0.544	mg/L	2.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	0.253	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	30.3	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(4) This is a calculation and is not applicable to a matrix spike.

11/16/95

WO/ejnjhb(dw)
W171CW1
CC: OLIN-TN

ATTN: STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE REVISED DATA
RESUBMITTED BY LABORATORY
INSERTED BY RESUBMITTED BY LABORATORY
SIGNATURE DAY

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/12/95 by GFB using 7195

⁽³⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.



TOF LABORATORY ANALYSIS

Lab Number : WL-1595-14 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERO

OLIN CHEMI 51 EAMES ST WILMINGTON:

SAMPLE DESCRIPTIC:

GW-80BR (FILT/MS)

PARAMETER

Aluminum, Dissolva Antimony, Dissolva Arsenic, Dissolve: Barium, Dissolved Beryllium, Dissol Cadmium, Dissolved Calcium, Dissolved Chromium, Dissolve. Chromium, Hexavale: Chromium, Trivalan Cobalt, Dissolved Copper, Dissolved Iron, Dissolved

- * PQL (Practical (specific reportial
- (1) Sample Prepara.
- (2) Sample Prepar:
- (3) The laborator, sample compas
- (4) This is a calc.

TITTE RESULTS

Page 30 of 50

.PIX		SAMPLI	D BY	SAMPLED D	ATE	RECEIVED
3		T. EBI	NER	10/12/9	5	10/12/95
	DF	*PQL	METHOD	ANALYZED	BY	NOTES
	2.0	0.10	200.7/6010	10/24/95	KW	1
· ~_	2.0	0.005	200.7/6010	10/24/95	KW	1
r/L	2.0	0.005	200.7/6010	10/26/95	KW	1
	2.0	0.005	200.7/6010	10/24/95	KW	1
272	2.0	0.005	200.7/6010	10/24/95	KW	1
	2.0	0.010	200.7/6010	10/24/95	KW	1
	2.0	0.050	200.7/6010	10/28/95	KW	1
_/ <u>L</u>	2.0	0.015	200.7/6010	10/26/95	KW	1
2/5	2.0	0.015	6010	10/20/95	KW	2,3
3/2	1.0	0.015	Calculation	11/07/95	DN	4
j/\mathbf{L}	2.0	0.030	200.7/6010	10/24/95	KW	1
· /L	2.0	0.025	200.7/6010	10/24/95	KW	1
; -	2.0	0.025	200.7/6010	10/24/95	KW	1

borntory reporting limits and may not reflect sampleits are indicated by results annotated with '<' values.

could not be achieved for this parameter due to Time, or quantity used for analysis.

a matrix spike.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATTN:STEVE MOD SMITH/BOM-RIC. PTI/CHRIS SELL

P.O. Box 720 - 3 - 1 Westbrock, N.E. I.- I TEL: 207-874-2410



Lab Number : WL-1595-14 Report Date: 11/16/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 31 of 50

SAMPLE DESCRIPTION		MAIRIX		SAMPL	ED BY	SAMPLED D	RECEIVED	
GW-80BR (FILT/MS)		Aqueous		T. ER	T. EBNER		5	10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Lead, Dissolved	0.517	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	26.0	mg/L	2.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Dissolved	11.4	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Dissolved	1.12	μg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	0.527	mg/L	2.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	31.4	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	ı
Selenium, Dissolved	2.07	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	20.7	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	0.051	mg/L	2.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	64.0	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	2.06	mg/L	2.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	0.544	ng/L	2.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	0.535	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 CC: OLIN-TN

> ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PIT/CHRIS SELLSTONE

REVISED BY LABORATORY

INSERTED BY RESUMPLIES LATE DATE

SIGNATURE DATE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number : WL-1595-14 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 31 of 50

SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	RECEIVED	
GW-80BR (FILIT/MS)	=	Aqueous			T. EBNER		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Lead, Dissolved	0.517	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	26.0	mg/L	2.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Dissolved	11.4	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Dissolved	1.12	μg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	0.527	mg/L	2.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	31.4	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	2.07	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	20.7	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	0.051	mg/L	2.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	64.0	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	2.06	mg/L	2.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	0.544	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	0.535	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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11/16/95

WO/ejnjbb(dw) W17ICW1

CC: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PII/CHRIS SELLSTONE EByraffaces 6/13/96

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1595-14 Report Date: 11/16/95

PO No.

: SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

Page 32 of 50

SAMPLE DESCRIPTION	MATRIX SAMPLED BY				BY	SAMPLED I	RECEIVED	
GW-80BR (FILT/MS)	Aqueous			T. EBNE	R	10/12/	10/12/95	
PARAMETER	RESULT	UNITS	DF	+PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	360.	mg/L	1.0	20	APHA 406C	10/17/95	CM	1
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	10/17/95	QM	1
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.05	353.2/1	10/24/95	NH	2
Nitrite as N, Dissolved	0.068	mg/L	1.0	0.050	353.2	10/13/95	CM	1
Organic Carbon, Dissolved (DOC)	122.	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	0.825	mg/L	1.0	0.10	365.4	10/26/95	CM	3
blids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	10/17/95	JF	4,5

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (2) This is a calculation and is not applicable to a matrix spike.
- (3) Sample Preparation on 10/26/95 by CIM
- (4) Sample Preparation on 10/16/95 by JF

(5) Matrix spike analysis is not applicable for this parameter.

11/16/95

LJO/ejnjbb(dw)/pph

CC: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PITI/CHRIS SELLSTONE

An Equal Opportunity Employer

RESUBMITTED BY LABCRATORY
INSERTED BY C. BELLEVILLE DATE OF STEHATURE

Please refer to cover letter\ case narrative for additional information concerning this sample result.



Lab Number : WL-1595-14 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 32 of 50

SAMPLE DESCRIPTION	MATRIX SA			SAMPLED	SAMPLED BY		SAMPLED DATE		
GW-80BR (FILT/MS)	Aqueous			T. EBNE	R	10/12/9	10/12/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCCC3	360.	mg/L	1.0	20	APHA 406C	10/17/95	CM	1	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	10/17/95	CM	1	
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.05	353.2/1	10/24/95	NH	2	
Nitrite as N, Dissolved	0.068	mg/L	1.0	0.050	353.2	10/13/95	CM	1	
Organic Carbon, Dissolved (DOC)	122.	mg/L	1.0	1.0	415.1	10/17/95	LT		
Phosphorus, Dissolved as P	0.825	mg/L	1.0	0.10	365.4	10/26/95	CM	3	
Solids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	10/17/95	JF	4,5	

^{*} POL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (2) This is a calculation and is not applicable to a matrix spike.
- (3) Sample Preparation on 10/26/95 by CLM
- (4) Sample Preparation on 10/16/95 by JF
- (5) Matrix spike analysis is not applicable for this parameter.

11/16/95

LJO/ejnjbb(dw)/pph

CC: OLIN-TN

ATTN: STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

E Beginkings 64 An Equal Opportunity Employer

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Please refer to cover letter\ case narrative for additional information concerning this sample



Lab Number : WL-1595-15 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 33 of 50

SAMPLE DESCRIPTION		MATRIX			ED BY	SAMPLED 1	RECEIVED	
GW-80BR (FILT/DUP)		Aqueous		T. ER	T. EBNER		5	10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	ву	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	0.011	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.069	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	πg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	153.	mg/L	5.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	29.2	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	20.6	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-IN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE RESUSHITTE BY SIGNATURE DATE TO STEEL DATE

An Equal Opportunity Employer

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400 FAX, 207-775-4029

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/12/95 by GFB using 7195



REPORT OF LABORATORY AN.

Lab Number: WL-1595

Report Date: 11/16/5

PO No. : SE-CH-E

CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

 \mathbf{p}_{i}

SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAIP.
GW-80BR (FILT/DUP)		Aqueous		T. EB	NER	10
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANAL.
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/2
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24
Arsenic, Dissolved	0.011	mg/L	1.0	0.005	200.7/6010	10/2:
Barium, Dissolved	0.069	mg/L	1.0	0.005	200.7/6010	10/2
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/2
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/1
Calcium, Dissolved	153.	mg/L	5.0	0.050	200.7/6010	10/31
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/25
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/21
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/0
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/2
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/1
Iron, Dissolved	29.2	mg/L	1.0	0.025	200.7/6010	10/2-
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/1
Magnesium, Dissolved	20.6	mg/L	1.0	0.050	200.7/6010	10/1.

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may no specific reporting limits. Sample-specific limits are indicated by results armous

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATTN: STEVE MORROW SMITH/BOM-RICK SACKS PTT/CHRIS SELLSTONE

E. Bejuntiver 4

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/12/95 by GFB using 7195



CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1595-15 Report Date: 11/16/95

PO No.

: SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

Page 34 of 50

SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BA	SAMPLED D	ATE	RECEIVED
GW-80BR (FILIT/DJP)		Aqueous		T. EB	T. EBNER		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	10.7	mg/L	2,0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Dissolved	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	5.96	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	17.0	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	КW	1
'odium, Dissolved	53.9	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Challium, Dissolved	0.011	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	ХW	1
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

^{*} FQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICWI CC: OLIN-IN

> ATIN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

REVISED DATA
RESUBMITTED BY LABORATORY
INSERTED BY PRICE SIGNATURE DATE

An Equal Opportunity Employer

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400 FAX: 207-775-4029

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number : WL-1595-15 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 34 of 50

SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	ATE	RECEIVED
GW-80BR (FILIT/DUP)		Aqueous	}	T. EB	NER	10/12/9	5	10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	10.7	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Dissolved	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	5.96	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	17.0	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	53.9	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	0.011	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 CC: OLIN-TN

> ATTN: STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

E Brancheres 4/1.

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-15

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

Sasage and the second and agree a

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 35 of 50

SAMPLE DESCRIPTION	MATRIX			SAMPLED	BY	SAMPLED I	RECEIVED	
GW-80BR (FILT/DUP)	Aqueous			T. ERNE	R	10/12/9	10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as H003	376	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCC3	20.0	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Ritrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	0.069	mg/L	1.0	0.050	353.2	10/13/95	CM	
Organic Carbon, Dissolved (DOC)	91.2	mg/L	1.0	1.0	€15.1	10/17/95	LT	
Phosphorus, Dissolved as P	2.60	mg/L	10	0.10	365.4	10/26/95	Q	1
Solids-Filt Pesidue, Dissolved	1020	mg/L	1.0	10	160.1	10/17/95	JP	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/26/95 by CLM

(2) Sample Preparation on 10/16/95 by JF

11/16/95

LJO/ejnjbb(dw)/pph

CC: OLIN-TN

ATTN: STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-15 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 35 of 50

SAMPLE DESCRIPTION	MATRIX			SAMPLED	BY	SAMPLED I	RECEIVED	
GW-80BR (FILT/DUP)	Aqueous			T. EBNE	R	10/12/9	10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	376	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCC3	20.0	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	0.069	mg/L	1.0	0.050	353.2	10/13/95	CM	
Organic Carbon, Dissolved (DOC)	91.2	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	2.60	mg/L	10	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	1020	mg/L	1.0	10	160.1	10/17/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(2) Sample Preparation on 10/16/95 by JF

11/16/95

LJO/ejnjbb (dw) /pph

CC: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE DATA VOID 13/26

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 10/26/95 by CLM



Lab Number : WL-1595-16 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 36 of 50

SAMPLE DESCRIPTION	MATRIX				SAMPLED BY		ATE	RECEIVED
FIELD REP (FILT)	Aqueous		T. EB	T. EBNER		5	10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.97	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.012	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0		200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	20.	mg/L	1.0	0.050	200.7/6010	10/28/95	K 74	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	0.10	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 CC: OLIN-TN

> ATTN: STEVE MORROW SMITH/BCM-RICK SACKS PTT/CHRIS SELLSTONE

RESUBMITTED BY LABORATORY
INSERTED BY LABORATURE
SIGNATURE
DATE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/12/95 by GFB using 7195



Lab Number : WL-1595-16 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 36 of 50

SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	SAMPLED D	RECEIVED	
FIELD REP (FILT)		Aqueous		T. EB	NER	10/12/9	10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.97	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.012	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	20.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	0.10	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATIN:STEVE MORROW SMITH/BOM-RICK SACKS PII/CHRIS SELLSTONE Ebyen Rues alighe

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-674-2400

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/12/95 by GFB using 7195



Lab Number : WL-1595-16 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 37 of 50

SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	ATE	RECSIVED
FIELD REP (FILT)		Aqueous	J	T. EB	NER	10/12/9	5	10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	ΕY	NOTES
Manganese, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Dissolved	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	ı
Potassium, Dissolved	0.96	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	2.7	$\pi g/L$	1.0	0.10	200.7/6010	10/18/95	ЖW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	2.1	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	КЖ	1
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/17/95 by VM using 3010

(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 CC: OLIN-TN

> ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

RESUBMITTED BY LARCRATORY
INSERTED BY SIGNATURE DATE

TEL: 207-874-2400 FAX: 267-775-4029



REPORT OF LA

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 I.

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION		MATRIX		\$340
FIELD REP (FILT)		Aqueous		T. I
PARAMETER	RESULT	UNITS	DF	*PQ <u>r</u>
Manganese, Dissolved	<0.005	mg/L	1.0	0.00
Mercury, Dissolved	<0.20	μg/L	1.0	0.2
Nickel, Dissolved	<0.040	mg/L	1.0	0.0-
Potassium, Dissolved	0.96	mg/L	1.0	0.5
Selenium, Dissolved	<0.005	mg/L	1.0	0.00
Silicon, Dissolved	2.7	mg/L	1.0	0.~
Silver, Dissolved	<0.015	mg/L	1.0	0.00
Sodium, Dissolved	2.1	mg/L	1.0	0.1
Thallium, Dissolved	<0.010	mg/L	1.0	0.01
Vanadium, Dissolved	<0.025	mg/L	1.0	0.CT
Zinc, Dissolved	<0.025	mg/L	1.0	0.0.

* PQL (Practical Quantitation Level) represents laboratory reporting specific reporting limits. Sample-specific limits are indicated

(1) Sample Preparation on 10/17/95 by VM using 3010

(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE E. Brun Rivers 6/13/96

12.

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400



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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-16 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 38 of 50

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SAMPLE DESCRIPTION	M	MATRIX			SAMPLED BY			RECEIVED	
FIELD REP (FILT)	Ας	Aquecus		T, EBNE	10/12/95		10/12/95		
PARAMETER	RESULT	UNITS	DF	*PQL	WEIHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Carbonate, Dissolved as CaCO3	25.	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Nitrate as N, Dissolved	1.6	mg/L	1.0	0.05	353.2/1	10/24/95	NH		
Nitrite as N. Dissolved	0.45	mg/L	1.0	0.050	353.2	10/13/95	QN	•	
(vic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	10/17/95	LT		
Pphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	QM	1	
Solids-Filt Residue, Dissolved	65.	mg/L	1.0	10	160.1	10/17/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

WO/ejnjbb(đw)

OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PIT/CHRIS SELLSTONE

INSERTED BY SIGNATURE

⁽¹⁾ Sample Preparation on 10/26/95 by CLM

⁽²⁾ Sample Preparation on 10/16/95 by JF



Lab Number : WL-1595-16

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
CLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 38 of 50

SAMPLE DESCRIPTION	M	MIRIX		SAMPLED BY		SAMPLED DATE		E RECEIVED	
FIELD REP (FILT)	Ac	Aqueous			R	10/12/95		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Carbonate, Dissolved as CaCO3	25.	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Nitrate as N, Dissolved	1.6	mg/L	1.0	0.05	353.2/1	10/24/95	NH		
Nitrite as N, Dissolved	0.45	mg/L	1.0	0.050	353.2	10/13/95	CM		
Organic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	10/17/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1	
Solids-Filt Residue, Dissolved	65.	mg/L	1.0	10	160.1	10/17/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN

ATIN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

An Equal Opportunity Employer

E. Byan Kenes C/1996
SIGNATURE

⁽¹⁾ Sample Preparation on 10/26/95 by CLM

⁽²⁾ Sample Preparation on 10/16/95 by JF



Lab Number: WL-1595-18

Report Date: 11/16/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01867

REPORT OF ANALYTICAL RESULTS

Page 39 of 50

SAMPLE DESCRIPTION		MATPIX		SAMPL	ED BY	SAMPLED D	ATE	RECEIVED
GW-81D (FILT)		Aqueous		T. ES	T. EBNER		5	10/12/95
PARAMETER	RESULT	UNTIS	DF	+ÞQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.82	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.010	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	18.	mg/ĭL	1.0	0.050	200.7/6010	10/28/95	KW	1
Chramium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chronium, Hexavalent Dissolved	<0.015	w3/T	1.0	0.015	6010	10/20/95	ICM	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	W	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	0.062	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	0.077	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

^{*} MOL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb (đw) LJ17ICWL

CC: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

REVISED DATA
RESUBMITTED BY LABORATORY INSERTED BY C. Refu

An Equal Opportunity Employer

P.O. Box 720 - 340 County Road #5 Westcrook, ME 04038 TEL: 207-874-2400 FAX: 207-775-4029

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/12/95 by GFB using 7195



Lab Number : WL-1595-18

....PON __TCALS

Report Date: 11/16/95

TS STREET

PO No. : SE-CH-827-VAR-C

TOH, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 39 of 50

T111		MATRIX		Sampli	ED BY	SAMPLED D	ATE	RECEIVED
		Aqueous	· · · · · ·	T. EBI	NER	10/12/9	10/12/95	
	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
ol:red	0.82	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
_lved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
lved	0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
33	0.010	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
tlived	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Tred	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
ved	18.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
polyed	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Talent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
ent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
ಕಡೆ	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
1	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
∍d	0.062	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
.	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
.cl:red	0.077	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

Quantitation Level) represents laboratory reporting limits and may not reflect sampleing limits. Sample-specific limits are indicated by results annotated with '<' values. ___ation on 10/17/95 by VM using 3010

reparation on 10/12/95 by GFB using 7195

... SACKS THESTONE

1:DRROW

An Equal Opportunity Employer

E-Sepurhouer 6/13/96



Lab Number : WL-1595-18
Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 40 of 50

SAMPLE DESCRIPTION MATRIX	SAMPLED	HY YH	10/12/95 1		10/12/95	
GW-81D (FILT) Aqueous	T. EBNER	₹				
PARAMETER RESULT UNITS DE	*PQL ME	THOD	AMALYZKO	ВХ	NOTES	
Manganese, Dissolved <0.005 mg/L 1.0	0.005 20	00.7/6010	10/24/95	KW	1	
Mercury, Dissolved <0.20 µg/L 1.0	0.20 24	15.1	10/26/95	JP	2	
Nickel, Dissolved <0.040 mg/L 1.0	0.040 20	00.7/6010	10/24/95	KW	1	
Potassium, Dissolved <0.50 mg/L 1.0	0.50 20	00.7/6010	10/18/95	KW	1	
Selenium, Dissolved <0.005 mg/L 1.0	0.005 20	00.7/6010	10/24/95	KW	1	
Silicon, Dissolved 2.4 mg/L 1.0	0.10 20	00.7/6010	10/18/95	KW	1	
Silver, Dissolved <0.015 mg/L 1.0	0.015 20	00.7/6010	10/24/95	KW	1	
Sodium, Dissolved 1.8 mg/L 1.0	0.10 20	00.7/6010	10/18/95	KW	1	
Thallium, Dissolved <0.010 mg/L 1.0	0.010 20	00.7/6010	10/24/95	KW	1	
Variadium, Dissolved <0.025 mg/L 1.0	0.025 20	00.7/6010	10/24/95	KW	1	
Zinc, Dissolved <0.025 mg/L 1.0	0.025 20	00.7/6010	10/24/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)
LJ17ICWL

CC: OLIN-TN

ATIN; SIEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE REVISED DATA

RESUBMITTED BY LABORATORY

INSERTED BY

SIGNATURE

DATE

OATE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number : WL-1595-18

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 40 of 50

SAMPLE DESCRIPTION	MATRIX SAMPLED BY		SAMPLED D	RECEIVED				
GW-81D (FILT)		Aqueous		T. EB	NER	10/12/9	5	10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Dissolved	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	<0.50	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	2.4	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	1.8	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE E Byenfines 4/17/86

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number : WL-1595-18
Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 41 of 50

SAMPLE DESCRIPTION	M	IRIX		SAMPLED	BY	SAMPLED DATE		E RECEIVED	
GM-81D (FILIT)	· Ac	Aqueous T. EBNER				10/12/95		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Carbonate, Dissolved as CaCO3	25	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Nitrate as N. Dissolved	1.7	mg/L	1.0	0.05	353.2/1	10/24/95	NH		
Nitrite as N. Dissolved	0.43	mg/L	1.0	0.050	353,2	10/13/95	CM		
Organic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	10/17/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1	
Solids-Filt Residue, Dissolved	63.	mg/L	1.0	10	160.1	10/17/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/26/95 by CLM

(2) Sample Preparation on 10/16/95 by JF

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE REVIOUS LABORATOR

An Equal Opportunity Employer

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400 FAX: 207-775-4029



Lab Number : WL-1595-18 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 41 of 50

SAMPLE DESCRIPTION	M	TRIX		SAMPLED	BY	SAMPLED DATE		RECEIVED	
GW-81D (FILT)	Ac	Aqueous			R	10/12/95		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HOO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Carbonate, Dissolved as CaCO3	25	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Nitrate as N, Dissolved	1.7	mg/L	1.0	0.05	353.2/1	10/24/95	NH		
Nitrite as N, Dissolved	0.43	mg/L	1.0	0.050	353.2	10/13/95	CM		
Organic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	10/17/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1	
Solids-Filt Residue, Dissolved	63.	mg/L	1.0	10	160.1	10/17/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN

ATTN: STEVE MORROW SMITH/BOM-RICK SACKS PIT/CHRIS SELLSTONE

2 Bylindrian College

⁽¹⁾ Sample Preparation on 10/26/95 by CIM

⁽²⁾ Sample Preparation on 10/16/95 by JF



CLIENT: DON CAMERON

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-19

Report Date: 11/16/95 PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 42 of 50

SAMPLE DESCRIPTION	MATRIX SAMPLED BY				ED BY	SAMPLED D	RECEIVED	
GW-65BR (FILT)	Aqueous		T. EB	T. EBNER		10/12/95		
PARAMETER	RESULT	UNITS	DF	*PQL	WEIHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.14	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	0.007	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.19	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	22.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	0.038	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	0.070	mg/L	1.0	0.050	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATIN: STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/12/95 by GFB using 7195



Lab Number : WL-1595-19
Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS

51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 43 of 50

SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED DATE		RECEIVED
GW-65BR (FILT)		Aqueous			T. EBNER		10/12/95	
PARAMETER	RESULT	UNTTS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Dissolved	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	330.	mg/L	10	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	14.	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	89.	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATIN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number : WL-1595-19
Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 44 of 50

SAMPLE DESCRIPTION	M	TRIX		SAMPLED BY		SAMPLED DATE		RECEIVED	
GW-65BR (FILT)	Ac	Aqueous			R	10/12/95		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	· · · · · · · · · · · · · · · · · · ·	
Carbonate, Dissolved as CaCO3	120	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Nitrate as N, Dissolved	0.14	mg/L	1.0	0.05	353.2/1	10/24/95	NH		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/13/95	CM		
Organic Carbon, Dissolved (DOC)	3.3	mg/L	1.0	1.0	415.1	10/17/95	LT		
Phosphorus, Dissolved as P	<1.0	mg/L	10	0.10	365.4	10/26/95	CM	1,2	
Solids-Filt Residue, Dissolved	970.	mg/L	1.0	10	160.1	10/17/95	JF	3	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN

ATIN:STEVE MORROW SMITH/BOM-RICK SACKS PII/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 10/26/95 by CLM

⁽²⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ Sample Preparation on 10/16/95 by JF



Lab Number : WL-1595-20
Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 45 of 50

SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	ATE	RECEIVED
GW-81BR (FILT)		Aqueous	I	T. EB	NER	10/12/9	5	10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	WEITHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.12	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.039	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	18.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	0.19	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	2.9	mg/L	1.0	0.050	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1

CC: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PIT/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/12/95 by GFB using 7195



Lab Number : WL-1595-20

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY SA				SAMPLED DATE RECEIVED		
GW-81BR (FILT)		Aqueous	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	T. EB	NER	10/12/9	5	10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	0.023	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Dissolved	<0.20	μg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	15.	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	6.1	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	38.	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 CC: OLIN-TN

ATIN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number : WL-1595-20 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 47 of 50

SAMPLE DESCRIPTION	MATRIX SAMPLED BY		ву	SAMPLED	DATE	RECEIVED			
GW-81BR (FILT)	Aqueous			T. EBNE	R	10/12/95		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZEI	BY	NOTES	
Bicarbonate, Dissolved as HCO3	50.	mg/L	1.0	20	APHA 406C	10/25/95	CM		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/25/95	CM		
Nitrate as N, Dissolved	0.81	mg/L	1.0	0.05	353.2/1	10/24/95	NH		
Nitrite as N, Dissolved	0.14	mg/L	1.0	0.050	353.2	10/13/95	CM		
Organic Carbon, Dissolved (DOC)	1.1	mg/L	1.0	1.0	415.1	10/17/95	LT		
Phosphorus, Dissolved as P	<1.0	mg/L	10	0.10	365.4	10/26/95	CM	1,2	
Solids-Filt Residue, Dissolved	280.	mg/L	4.0	10	160.1	10/17/95	JF	3	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb (dw)

C: OLIN-TN

ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PII/CHRIS SELLSTONE

An Equal Opportunity Employer

⁽¹⁾ Sample Preparation on 10/26/95 by CLM

⁽²⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ Sample Preparation on 10/16/95 by JF



Lab Number: WL-1595-17 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 48 of 50

SAMPLE DESCRIPTION	MATRIX SAMPLED BY			SAMPLED DATE RECEIVED				
GW-300 (FILT)		Aqueous		T. EB	T. EBNER		5	10/12/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	0.074	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	<0.050	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 CC: OLIN-TN

> ATIN: STEVE MORROW SMITH/BCM-RICK SACKS PTI/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/12/95 by GFB using 7195



Lab Number : WL-1595-17 Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS

51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 49 of 50

SAMPLE DESCRIPTION	MATRIX SAMPLED BY		SAMPLED DATE		RECEIVED			
GW-300 (FILT)	Aqueous T. EBNER		NER	10/12/95		10/12/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved <	0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Dissolved <	:0.20	$\mu { m g}/{ m L}$	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved <	0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved <	0.50	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved <	:0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	0.11	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved <	0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved <	0.10	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved <	0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved <	0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	0.051	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw) LJ17ICW1 CC: OLIN-TN

> ATTN:STEVE MORROW SMITH/BOM-RICK SACKS PTI/CHRIS SELLSTONE

> > An Equal Opportunity Employer

⁽¹⁾ Sample Preparation on 10/17/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/25/95 by JAF using 245.1



Lab Number: WL-1595-17

Report Date: 11/16/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED BY		SAMPLED I	RECEIVED		
GW-300 (FILT)	Aqueous			T. EBNE	R	10/12/95		10/12/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM		
Nitrate as N, Dissolved	0.08	mg/L	1.0	0.05	353.2/1	10/24/95	NH		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/13/95	CM		
Organic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	10/17/95	LT		
Phosphorus, Dissolved as P	<1.0	mg/L	10	0.10	365.4	10/26/95	CM	1,2	
Solids-Filt Residue, Dissolved	<10	mg/L	1.0	10	160.1	10/17/95	JF	3	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN

ATIN: STEVE MORROW SMITH/BOM-RICK SACKS PIT/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/26/95 by CLM

⁽²⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ Sample Preparation on 10/16/95 by JF

Field Identification: GW-44S (FILT) Matrix: WATER

		Reporting		Date Analyzed	QC	
Parameter	Result	Limit	Lab No.		Batch	Method/Ref.
Chloride, dissolved (mg/L)	9	1	45696-001	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	9	1	45696-001	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45696-001	10/18/95	668A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.08	0.02	45696-001	10/18/95	203	365.2/1
Viscosity, dissolved (cpoise)	3.0		45696-016	10/18/95		D3245-85
Ammonia-N, dissolved (mg/L as N)	2.3	0.05	45696-021	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45696-037	10/18/95	312	376.1/1

Field Identification: GW-44D (FILT) Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	13000	50	45696-002	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	28000	1000	45696-002	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	20	45696-002	10/20/95	669A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.5	0.1	45696-002	10/18/95	203	365.2/1
Viscosity, dissolved (cpoise)	3.5		45696-017	10/18/95		D3245-85
Ammonia-N, dissolved (mg/L as N)	3400	50	45696-022	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	2	45696-038	10/18/95	312	376.1/1

Field Identification: GW-45S (FILT) Matrix: WATER

Parameter		Reporting		Date	QC		
	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.	
Chloride, dissolved (mg/L)	130	1	45696-003	10/18/95	765	325.1/1	
Sulfate, dissolved (mg/L)	28	1	45696-003	10/18/95	668A	300.0/1	
Bromide, dissolved (mg/L)	BDL	1	45696-003	10/20/95	669A	300.0/1	
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45696-003	10/18/95	203	365.2/1	
ummonia-N, dissolved (mg/L as N)	3.6	0.05	45696-023	10/19/95	585	350.2/1	
Sulfide, dissolved (mg/L)	BDL	1	45696-039	10/18/95	312	376.1/1	



Field Identification: GW-45D (FILT)

Matrix: WATER

		Reporting		Date	QC			
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.		
Chloride, dissolved (mg/L)	8900	50	45696-004	10/18/95	765	325.1/1		
Sulfate, dissolved (mg/L)	32000	1000	45696-004	10/18/95	668A	300.0/1		
Bromide, dissolved (mg/L)	BDL	20	45696-004	10/20/95	669A	300.0/1		
Ortho Phosphate, dissolved (mg/L as P)	0.4	0.1	45696-004	10/18/95	203	365.2/1		
Ammonia-N, dissolved (mg/L as N)	3300	10	45696-024	10/19/95	585	350.2/1		
Sulfide, dissolved (mg/L)	BOL	2	45696-040	10/18/95	312	376.1/1		

Field Identification: GW-428 (FILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	85	1	45696-005	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	6	1	45696-005	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45696-005	10/18/95	668A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45696-005	10/18/95	203	365.2/1
Viscosity, dissolved (cpoise)	3.0		45696-018	10/18/95		D3245-85
Ammonia-N, dissolved (mg/L as N)	4.3	0.05	45696-025	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45696-041	10/18/95	312	376.1/1

Field Identification: GW-420 (FILT)

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	18000	100	45696-006	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	54000	1000	45696-006	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	50	45696-006	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.9	0.1	45696-006	10/18/95	203	365.2/1
Viscosity, dissolved (cpoise)	3.5		45696-019	10/18/95		03245-85
Ammonia-N, dissolved (mg/L as N)	7300	50	45696-026	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	4	45696-042	10/18/95	312	376.1/1



Field Identification: FIELD REP 2 (FILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	18000	100	45696-007	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	35000	1000	45696-007	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	50	45696-007	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	1	0.1	45696-007	10/18/95	203	365.2/1
Viscosity, dissolved (cpoise)	4.0		45696-020	10/18/95		D3245-85
Ammonia-W, dissolved (mg/L as W)	7500	50	456 96 -027	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	4	45696-043	10/18/95	312	376.1/1

Field Identification: GW-43S (FILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	93	1	45696-008	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	440	10	45696-008	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45696-008	10/20/95	669A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45696-008	10/18/95	203	365.2/1
Ammonia-N, dissolved (mg/L as N)	84	0.5	45696-028	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45696-044	10/18/95	312	376.1/1

Field Identification: GW-43S (FILT/DUP)

	Reporting			Date	QC		
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.	
Chloride, dissolved (mg/L)	85	1	45696-009	10/18/95	765	325.1/1	
Sulfate, dissolved (mg/L)	410	10	45696-009	10/18/95	668A	300.0/1	
Bromide, dissolved (mg/L)	BDL	1	45696-009	10/20/95	669A	300.0/1	
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45696-009	10/18/95	203	365.2/1	
Ammonia-N, dissolved (mg/L as N)	93	0.5	45696-029	10/19/95	585	350.2/1	
Sulfide, dissolved (mg/L)	BOL	1	45696-045	10/18/95	312	376.1/1	



Field Identification: GW-43S (FILT/MS)

Matrix: WATER

	Reporting			Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	130	1	45696-010	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	530	10	45696-010	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	9	1	45696-010	10/20/95	669A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.51	0.02	45696-010	10/18/95	203	365.2/1
Ammonia-N, dissolved (mg/L as N)	95	0.5	45696-030	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	40	1	45696-046	10/18/95	312	376.1/1

Field Identification: GW-43D (FILT)

Matrix: WATER

	Reporting			Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	4000	1000	45696-011	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	23000	1000	45696-011	10/24/95	671A	300.0/1
Bromide, dissolved (mg/L)	BDL	20	45696-011	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.26	0.02	45696-011	10/18/95	203	365.2/1
Ammonia-N, dissolved (mg/L as N)	3400	10	45696-031	10/20/95	586	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	456 96 -047	10/18/95	312	376.1/1

Field Identification: GW-50S (FILT)

Matrix: WATER

	Reporting			Date	QC		
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.	
Chloride, dissolved (mg/L)	75	1	45696-012	10/18/95	765	325.1/1	
Sulfate, dissolved (mg/L)	190	5	45696-012	10/18/95	668A	300.0/1	
Bromide, dissolved (mg/L)	BDL	1	45696-012	10/20/95	669A	300.0/1	
Ortho Phosphate, dissolved (mg/L as P)	BOL	0.02	45696-012	10/18/95	203	365.2/1	
Ammonia-N, dissolved (mg/L as N)	53	0.3	45696-033	10/19/95	585	350.2/1	
Sulfide, dissolved (mg/L)	BDL	1	45696-049	10/18/95	312	376.1/1	

Field Identification: GW-500 (FILT)

	Reporting			Date	QC	
Parameter	Result	Limit	tab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	1200	10	45696-013	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	4300	100	45696-013	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	20	45696-013	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45696-013	10/18/95	203	365.2/1
Ammonia-N, dissolved (mg/L as N)	900	3	45696-034	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45696-050	10/18/95	312	376.1/1



Field Identification: GW-40S (FILT)

Matrix: WATER

•		Reporting		Date	QC	
Parameter	Resul t	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	24	1	45696-014	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	42	1	45696-014	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45696-014	10/18/95	668A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45696-014	10/18/95	203	365.2/1
Ammonia-N, dissolved (mg/L as N)	BOL	0.05	45696-035	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45696-051	10/18/95	312	376.1/1

Field Identification: GW-40D (FILT)

Matrix: WATER

	Reporting			Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Chloride, dissolved (mg/L)	100	1	45696-015	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	860	10	45696-015	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	2	1	45696-015	10/18/95	668A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.05	0.02	45696-015	10/18/95	203	365.2/1
Ammonia-N, dissolved (mg/L as N)	120	0.5	45696-036	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	3	1	45696-052	10/18/95	312	376.1/1

Field Identification: GW-400 (FILT)

Matrix: WATER

	Reporting			Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed	Batch	Method/Ref.
Ammonia-N, dissolved (mg/L as N)	BOL	0.05	45696-032	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45696-048	10/18/95	312	376.1/1
Chloride, dissolved (mg/L)	BDL	1	45696-069	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	1.9	1	45696-069	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45696-069	10/18/95	668A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45696-069	10/18/95	203	365.2/1

Field Identification: GW-44S (UNFILT)

			Date	QC		
Parameter	Result	Limit	Lab Ko.	Analyzed		Method/Ref.
Ammonia-N (mg/L as N)	0.12	0.05	45696-053	10/20/95		350.2/1



Field Identification: GW-44D (UNFILT)

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed		Method/Ref.
Ammonia-N (mg/L as N)	4100		45696-054	10/20/95		350.2/1
Field Identification: GW-45S (UNFILT)			Matrix: WAT	ER		
Parameter	Result	Reporting Limit		Date Analyzed	Batch	•
Ammonia-W (mg/L as N)	2.8	0.05	45696-055			350.2/1
Field Identification: GW-45D (UNFILT)			Matrix: WAT	ER		
Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	3900	10	45696-056	10/20/95	586	350.2/1
Field Identification: GW-42S (UNFILT)			Matrix: WAT	ER		
Parameter	Result		Lab No.	•		Method/Ref.
Ammonia-N (mg/L as N)	4.0	0.05				350.2/1
Field Identification: GW-42D (UNFILT)			Matrix: WAT	ER		
Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	6900	50	45696-058	10/20/95	586	350.2/1
Field Identification: FIELD REP 2 (UNF	ILT)		Matrix: WAT	ER		
Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	7100	50	45696-059	10/20/95	586	350.2/1



Field Identification: GW-43S (UNFILT)

Parameter	Result	Reporting Limit	Lab No.	•		Method/Ref.
Ammonia-N (mg/L as N)	85	0.5		10/20/95		350.2/1
Field Identification: GW-43S (U	NFILT/DUP)		Matrix: WA1	TER		
Parameter	Result	Reporting Limit		Date Analyzed	Batch	Method/Ref.
Ammonia-N (mg/L as N)	89	0.5	45696-061			350.2/1
Field Identification: GW-43S (U		Matrix: WAI	ER			
Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	110	0.5	45696-062	10/20/95	586	350.2/1
Field Identification: GW-43D (UI	NFILT)		Matrix: WAT	ER		
Parameter	Result		Lab No.	-		
Ammonia-N (mg/L as N)	3000	50	45696-063			
Field Identification: GW-400 (U	HFILT)		Matrix: WAT	ER		
Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ummonia-N (mg/L as N)	BDL	0.05	45696-064	10/20/95	586	350.2/1
ield Identification: GW-50S (UK	IFILT)		Matrix: WAT	ER		
Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
ummonia-N (mg/L as N)	52	0.5	45696-065	10/20/95	586	350.2/1



Field Identification: GW-500 (UNFILT)

Matrix: WATER

	Reporting			Date	QC		
Parameter	Result	Limit	Lab No.	Analyzed		Method/Ref.	
Ammonia-N (mg/L as N)	950	5	45696-066	10/20/95		350.2/1	

Field Identification: GW-40S (UNFILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed		Method/Ref.
Ammonia-N (mg/L as N)	BDL	0.05	45696-067	10/20/95		350.2/1

Field Identification: GW-400 (UNFILT)

Matrix: WATER

		Reporting		Date	QC	
Parameter	Result	Limit	Lab No.	Analyzed		Method/Ref.
Ammonia-N (mg/L as N)	140	0.5	45696-068	10/20/95		350.2/1

Peferences: 1) 40 CFR Part 136, Friday, October 26, 1984

2) EPA SW 846, 3rd Edition

3) Standard Methods, 16th Edition





OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-1 Report Date: 12/06/95

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SAMPLE DESCRIPTION	M	MATRIX SAMPLED BY				SAMPLED D	RECEIVED	
GW-44S (UNFILT)	4	queous		T. EBN	ER	10/17/9	5	10/17/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Total	0.006	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Calcium, Total	B5.1	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1,2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1
Iron, Total	0.054	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	0.92	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1
Manganese, Total	0.015	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	0.74	mg/L	1.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	4	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	12	mg/L	1.0	0.10	200.7/6010	10/27/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ20ICW2

⁽¹⁾ Sample Preparation on 10/20/95 by VM using 3010

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-2 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY					SAMPLED D	RECEIVED	
GW-44D (UNFILT)	Aqueous '		T. EBN	T. EBNER		5	10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	990.	mg/L	10	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<2.5	mg/L	500	0.005	200.7/6010	11/06/95	KW	1,2
Barium, Total	<0.050	mg/L	10	0.005	200.7/6010	11/01/95	KW	1,2
Calcium, Total	B360	mg/L	10	0.050	200.7/6010	11/01/95	KW	1,3
Chromium, Total	790	mg/L	500	0.015	200.7/6010	11/06/95	KW	1
Iron, Total	1800.	mg/L	10	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	0.10	mg/L	10	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	750.	mg/L	10	0.050	200.7/6010	11/01/95	KW	1
Manganese, Total	150	mg/L	100	0.005	200.7/6010	11/06/95	KW	1
Potassium, Total	110.	mg/L	2.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	61.	mg/L	20	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	10000.	mg/L	200	0.10	200.7/6010	10/28/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb (dw) LJ20ICW2

⁽¹⁾ Sample Preparation on 10/20/95 by VM using 3010

⁽²⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1622-3
Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY S				SAMPLED D	RECEIVED		
GW-45S (UNFILIT)	<i>J</i>	vdneone		T. EBN	ER	10/17/9	5	10/17/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Total	0.034	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Calcium, Total	B15	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1,2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1
Iron, Total	<0.025	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	2.4	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1
Manganese, Total	0.89	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	2.5	mg/L	1.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	4.2	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	68	mg/L	1.0	0.10	200.7/6010	10/27/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ20ICW2

⁽¹⁾ Sample Preparation on 10/20/95 by VM using 3010

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1622-4
Report Date: 12/06/95

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY					SAMPLED D	RECEIVED	
GW-45D (UNFILT)	Aqueous		T. EBN	T. EBNER		5	10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	800.	mg/L	10	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<2.5	mg/L	500	0.005	200.7/6010	11/06/95	KW	1,2
Barium, Total	<0.050	mg/L	10	0.005	200.7/6010	11/01/95	KW	1,2
Calcium, Total	B350	mg/L	10	0.050	200.7/6010	11/01/95	KW	1,3
Chromium, Total	560	mg/L	500	0.015	200.7/6010	11/06/95	KW	1
Iron, Total	1200.	mg/L	10	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	0.087	mg/L	10	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	540.	mg/L	10	0.050	200.7/6010	11/01/95	KW	1
Manganese, Total	260	mg/L	500	0.005	200.7/6010	11/06/95	KW	1
Potassium, Total	110	mg/L	2.0	0.50	200.7/6010	10/30/95	KW	1
Silicon, Total	54.	mg/L	20	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	8700	mg/L	100	0.10	200.7/6010	10/30/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)/kew

⁽¹⁾ Sample Preparation on 10/20/95 by VM using 3010

⁽²⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1622-5 Report Date: 12/06/95

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SAMPLE DESCRIPTION	M	MATRIX SAMPLED BY				SAMPLED D	RECEIVED		
GW-42S (UNFILIT)	A	Aqueous '		T. EEN	T. EBNER		5	10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total	0.39	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1	
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1	
Barium, Total	0.032	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1	
Calcium, Total	B4.5	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1,2	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1	
Iron, Total	14.	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1	
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1	
Magnesium, Total	1.5	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1	
Manganese, Total	0.85	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1	
Potassium, Total	1.1	mg/L	1.0	0.50	200.7/6010	10/27/95	KW	1	
Silicon, Total	6	mg/L	10	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Total	41.	mg/L	1.0	0.10	200.7/6010	10/27/95	KW	1	

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12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 10/20/95 by VM using 3010

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-6 Report Date: 12/06/95

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SAMPLE DESCRIPTION	M	ATRIX		SAMPLE	D BY	SAMPLED D	ATE	RECEIVED
GW-42D (UNFILT)	Aqueous		T. EBN	T. EBNER		5	10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	1500.	mg/L	10	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<10	mg/L	2000	0.005	200.7/6010	11/06/95	KW	1,2
Barium, Total	<0.050	mg/L	10		200.7/6010		KW	1,2
Calcium, Total	B370	mg/L	10	0.050	200.7/6010	11/01/95	KW	1,3
Chromium, Total	2800	mg/L	2000	0.015	200.7/6010	11/06/95	KW	1
Iron, Total	1400.	mg/L	100	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	0.17	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	840.	mg/L	10	0.050	200.7/6010	11/01/95	KW	1
Manganese, Total	580.	mg/L	500	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	98	mg/L	2.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	100.	mg/L	50	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	22000.	mg/L	400	0.10	200.7/6010	10/28/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 10/20/95 by VM using 3010

⁽²⁾ The laboratory's Practical Quantitation level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1622-7 Report Date: 12/06/95

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY S					SAMPLED D	RECEIVED	
FIELD REP 2 (UNFILT)	А	queous		T. EBN	ER	10/17/9	5	10/17/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	1500.	mg/L	10	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<10	mg/L	2000	0.005	200.7/6010	11/06/95	KW	1,2
Barium, Total	<0.050	mg/L	10	0.005	200.7/6010	11/01/95	KW	1,2
Calcium, Total	B370	mg/L	10	0.050	200.7/6010	11/01/95	KW	1,3
Chromium, Total	2600	mg/L	2000	0.015	200.7/6010	11/06/95	KW	1
Iron, Total	1400.	mg/L	100	0.025	200.7/6010	11/01/95	KW	ı
Lead, Total	0.17	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	870.	mg/L	10	0.050	200.7/6010	11/01/95	KW	1
Manganese, Total	600.	mg/L	500	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	73.	mg/L	10	0.50	200.7/6010	10/28/95	KW	1
Silicon, Total	100.	mg/L	50	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	21000.	mg/L	400	0.10	200.7/6010	10/28/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 10/20/95 by VM using 3010

⁽²⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-8 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	M	PATRIX		SAMPLE	D BY	SAMPLED D	ATE	RECEIVED
GW-43S (UNFILT)	Ą	queous		T. EBN	ER	10/17/9	5	10/17/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1
Barium, Total	0.074	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Calcium, Total	B49	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1,2
Chromium, Total	0.018	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1
Iron, Total	0.079	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Iead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	8.5	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	2.0	mg/L	2.0	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	1.2	mg/L	1.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	16.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	80.	mg/L	1.0	0.10	200.7/6010	10/27/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw) LJ20ICW2

⁽¹⁾ Sample Preparation on 10/20/95 by VM using 3010

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-9
Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	ŀ	ATRIX		SAMPLE	D BY	SAMPLED D	ATE	RECEIVED
GW-43S (UNFILT/DUP)	J	Aqueous		T. EBNER		10/17/95		10/17/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1
Barium, Total	0.075	mg/L	1.0		200.7/6010		KW	1
Calcium, Total	B51.1	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1,2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1
Iron, Total	<0.025	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	8.85	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	2.11	mg/L	2.0	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	1.11	mg/L	1.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	16.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	87.7	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ20ICW2

CC: OLIN-TN STEVE MORROW SMITH-R. SACKS

PTI-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/20/95 by VM using 3010

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-10 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY S				SAMPLED D	RECEIVED			
GW-43S (UNFILIT/MS)	ת	Aqueous		T. EBNER		10/17/95		10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total	2.05	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1	
Arsenic, Total	2.12	mg/L	2.0	0.005	200.7/6010	11/09/95	KW	2	
Barium, Total	2.11	mg/L	2.0	0.005	200.7/6010	11/01/95	KW	1	
Calcium, Total	B50.7	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1,3	
Chromium, Total	0.209	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1	
Iron, Total	0.984	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1	
Lead, Total	0.501	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1	
Magnesium, Total	13.4	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1	
Manganese, Total	2.52	mg/L	2.0	0.005	200.7/6010	11/01/95	KW	1	
Potassium, Total	24.6	mg/L	1.0	0.50	200.7/6010	10/27/95	KW	1	
Silicon, Total	18.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Total	, 89.3	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ20ICW2

⁽¹⁾ Sample Preparation on 10/20/95 by VM using 3010

⁽²⁾ Sample Preparation on 11/07/95 by VM using 3010

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Iab Number : WL-1622-11 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				D BY	SAMPLED DATE RECEIVED		
GW-43D (UNFILIT)	Aqueous			T. EBN	ER	10/17/9	5	10/17/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	440.	mg/L	20		200.7/6010		KW	1
Arsenic, Total	<1.0	mg/L	200	0.005	200.7/6010	11/06/95	KW	2,3
Barium, Total	<0.10	mg/L	20		200.7/6010		KW	1,3
Calcium, Total	B290	mg/L	20	0.050	200.7/6010	10/30/95	KW	1,4
Chromium, Total	260	mg/L	200	0.015	200.7/6010	11/06/95	KW	2
Iron, Total	600.	mg/L	20	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.10	mg/L	20	0.005	200.7/6010	11/01/95	KW	1,3
Magnesium, Total	350.	mg/L	20	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	66.	mg/L	100	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	16.	mg/L	10	0.50	200.7/6010	10/28/95	KW	1
Silicon, Total	37.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	4000.	mg/L	50	0.10	200.7/6010	10/28/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw) LJ20ICW2

⁽¹⁾ Sample Preparation on 10/20/95 by VM using 3010

⁽²⁾ Sample Preparation on 11/03/95 by VM using 3010

⁽³⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽⁴⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-12 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	P.				MPLED BY SAMPL			RECEIVED
GW-400 (UNFILIT)	J				ER	10/17/9	5	10/17/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	ĸw	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1
Barium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Calcium, Total	<0.050	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1
Iron, Total	0.053	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	<0.050	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	<0.50	mg/L	1.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	<0.2	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	0.16	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw) LJ20ICW2

⁽¹⁾ Sample Preparation on 10/20/95 by VM using 3010

⁽²⁾ Sample Preparation on 11/02/95 by VM using 3010



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-13 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED D	SAMPLED DATE RECEIVED		
GW-50S (UNFILIT)	Aqueous			T. EBN	ER	10/17/9	5	10/17/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1
Barium, Total	0.015	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Calcium, Total	B13	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1,2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1
Iron, Total	0.10	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	2.8	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	0.38	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	2.7	mg/L	1.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	8	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	64.	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)
LJ20ICW2
CC: CLIN-TN STEVE MORROW
SMITH-R. SACKS

PTI-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/20/95 by VM using 3010

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-14 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	MATRIX			SAMPLE	D BY	SAMPLED D	ATE	RECEIVED	
GW-50D (UNFILIT)	Aqueous			T. EBN	ER	10/17/9	10/17/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1	
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1	
Barium, Total	0.016	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1	
Calcium, Total	B330	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1,2	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1	
Iron, Total	0.38	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1	
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1	
Magnesium, Total	84.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1	
Manganese, Total	10.	mg/L	10	0.005	200.7/6010	11/01/95	KW	1	
Potassium, Total	26.	mg/L	10	0.50	200.7/6010	10/28/95	KW	1	
Silicon, Total	7	mg/L	10	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Total	1200.	mg/L	50	0.10	200.7/6010	10/28/95	KW	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw) LJ20ICW2

⁽¹⁾ Sample Preparation on 10/20/95 by VM using 3010

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-15 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED DATE RECEIVED			
GW-40S (UNFILIT)	Aqueous :			T. EBN	ER	10/17/9	5	10/17/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.68	mg/L	1.0	0.10	200.7/6010	11/30/95	EM	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Barium, Total	0.038	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Calcium, Total	B12	mg/L	1.0	0.050	200.7/6010	11/30/95	EM	1,2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/30/95	EM	1
Iron, Total	0.24	mg/L	1.0	0.025	200.7/6010	11/30/95	EM	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Magnesium, Total	1.1	mg/L	1.0	0.050	200.7/6010	11/30/95	EM	1
Manganese, Total	0.061	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Potassium, Total	1.9	mg/L	1.0	0.50	200.7/6010	12/01/95	EM	1
Silicon, Total	2.7	mg/L	1.0	0.10	200.7/6010	12/02/95	EM	1
Sodium, Total	19	mg/L	1.0	0.10	200.7/6010	12/01/95	ΕM	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LK22ICW3

⁽¹⁾ Sample Preparation on 11/22/95 by JAF using 3010

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.10 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-16 Report Date: 12/06/95

PO No.

: SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	MATRIX SAMPLED I			D BY	SAMPLED D	ATE	RECEIVED	
GW-40D (UNFILT)	Aqueous		T. EBNER		10/17/95		10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/30/95	EM	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Barium, Total	0.019	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Calcium, Total	B190	mg/L	1.0	0.050	200.7/6010	11/30/95	EM	1,2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/30/95	EM	1
Iron, Total	0.16	mg/L	1.0	0.025	200.7/6010	11/30/95	EM	1
Iead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Magnesium, Total	11.	mg/L	1.0	0.050	200.7/6010	11/30/95	EM	1
Manganese, Total	1.9	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Potassium, Total	5.1	mg/L	1.0	0.50	200.7/6010	12/01/95	EM	1
Silicon, Total	1.8	mg/L	1.0	0.2	200.7/6010	12/02/95	EM	1
Sodium, Total	190	mg/L	5.0	0.10	200.7/6010	12/01/95	EM	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn/kew LK22ICW3

⁽¹⁾ Sample Preparation on 11/22/95 by JAF using 3010

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.10 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-19
Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY			ED BY	SAMPLED D	DATE RECEIVED		
GW-45S (FILT)		Aqueous		T. EB	NER	10/17/95		10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Barium, Dissolved	0.034	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Calcium, Dissolved	16	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	2	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/20/95	DN		
Iron, Dissolved	0.076	mg/L	1.0	0.025	200.7/6010	11/07/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Magnesium, Dissolved	2.5	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Manganese, Dissolved	0.91	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/03/95	NH	1	
Silicon, Dissolved	4.3	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Dissolved	75.	mg/L	1.0	1.	200.7/6010	11/03/95	NH	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw) LJ23ICWl

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/17/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-19
Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED	LED BY SAMPLED DATE RECEIV				
CW-45S (FILIT)	Ac	ueous		T. EBNE	R	10/17/	95	10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	ву	NOTES	
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Nitrate as N, Dissolved	2.0	mg/L	1.0	0.05	353.2/1	10/24/95	NH		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM		
Organic Carbon, Dissolved (DOC)	1.2	mg/L	1.0	1.0	415.1	11/03/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1	
Solids-Filt Residue, Dissolved	280.	mg/L	1.0	10	160.1	10/19/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 10/25/95 by CLM

⁽²⁾ Sample Preparation on 10/18/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-20 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED D	ATE	RECEIVED	
GW-45D (FILT)		Aqueous T. EBNER				10/17/9	5	10/17/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	1100	mg/L	100	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<2.5	mg/L	500	0.005	200.7/6010	11/07/95	KW	1,2
Barium, Dissolved	<0.50	mg/L	100	0.005	200.7/6010	11/06/95	KW	1,2
Calcium, Dissolved	500.	mg/L	100	0.050	200.7/6010	11/07/95	KW	1
Chromium, Dissolved	680	mg/L	500	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	2.4	mg/L	1.0	0.015	6010	10/31/95	KW	. 3
Chromium, Trivalent Dissolved	680	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	1500.	mg/L	100	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.50	mg/L	100	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	770.	mg/L	100	0.050	200.7/6010	11/07/95	KW	1
Manganese, Dissolved	280	mg/L	200	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	100.	mg/L	20	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	56.	mg/L	20	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	9300.	mg/L	50	1.	200.7/6010	11/06/95	NH	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

WO/ejnejn W23ICW1

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ Sample Preparation on 10/17/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-20 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	YTRIX		SAMPLED	SAMPLED BY SAMPLED DATE RECEIV				
GW-45D (FILIT)	Ac	queous		T. EBNE	R	10/17/95 10/1		10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	NR.	mg/L	1.0	20	APHA 406C	10/24/95	CM	1	
Carbonate, Dissolved as CaCO3	NTR	mg/L	1.0	20	APHA 406C	10/24/95	CM	2	
Nitrate as N, Dissolved	7.5	mg/L	1.0	0.05	353.2/1	10/25/95	NH		
Nitrite as N, Dissolved	<0.20	mg/L	4.0	0.050	353,2	10/19/95	CM	3	
Organic Carbon, Dissolved (DOC)	430.	mg/L	8.0	1.0	415.1	11/03/95	LT		
Phosphorus, Dissolved as P	4.4	mg/L	10	0.10	365.4	10/26/95	CM	4	
Solids-Filt Residue, Dissolved	29000.	mg/L	20	10	160.1	10/23/95	JF	5	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) Initial sample pH was <4.5. Bicarbonate could not be analyzed.
- (2) Initial sample pH was <4.5. Carbonate could not be analyzed.
- (3) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
- (4) Sample Preparation on 10/25/95 by CLM
- (5) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-24 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY			SAMPLED D	SAMPLED DATE RECEIVED			
GW-43S (FILT)		Aqueous		T. EB	NER	10/17/95		10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	вч	NOTES	
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/07/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1	
Barium, Dissolved	0.065	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Calcium, Dissolved	49.	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	2	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/20/95	DN		
Iron, Dissolved	0.048	mg/L	1.0	0.025	200.7/6010	11/07/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Magnesium, Dissolved	8.4	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1	
Manganese, Dissolved	2.0	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/03/95	NH	1	
Silicon, Dissolved	14.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Dissolved	82.	mg/L	1.0	1.	200.7/6010	11/03/95	NH	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)
LJ23ICW1
CC: OLIN-TN STEVE MORROW
SMITH-R. SACKS
PTI-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/17/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-24 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED	ву	SAMPLED DATE RECEIVED			
GW-43S (FILIT)	Aqueous			T. EBNER		10/17/95		10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	76.	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Nitrate as N, Dissolved	5. 6	mg/L	1.0	0.1	353.2/1	10/25/95	NH		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM		
Organic Carbon, Dissolved (DOC)	8.1	mg/L	1.0	1.0	415.1	11/06/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1	
Solids-Filt Residue, Dissolved	720.	mg/L	1.0	10	160.1	10/19/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 10/25/95 by CIM

⁽²⁾ Sample Preparation on 10/18/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-25 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	MATRIX			SAMPLED BY		SAMPLED DATE RECEIVED		
GW-43S (FILT/DUP)		Aqueous			T. EBNER		10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/07/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1
Barium, Dissolved	0.069	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	49.6	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	0.053	mg/L	1.0	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	8.62	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Manganese, Dissolved	2.03	mg/L	2.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	15.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	87.	mg/L	1.0	1.	200.7/6010	11/03/95	NH	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)
LJ23ICW1
CC: OLIN-TN STEVE MORROW
SMITH-R. SACKS
PTI-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/17/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-25 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	MATRIX			SAMPLED BY T. EBNER		SAMPLED I	10/17/95	
GW-43S (FILT/DUP)						10/17/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	84.5	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	5.4	mg/L	1.0	0.1	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	7.78	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<0.100	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	656	mg/L	1.0	10	160.1	10/19/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)/pph

⁽¹⁾ Sample Preparation on 10/25/95 by CLM

⁽²⁾ Sample Preparation on 10/18/95 by JF



CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-26 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	ATE	RECEIVED	
GW-43S (FILT/MS)		Aqueous		T. EE	NER	10/17/95		10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	2.07	mg/L	2.0	0.10	200.7/6010	11/07/95	KW	1	
Arsenic, Dissolved	1.96	mg/L	2.0	0.005	200.7/6010	11/07/95	KW	1	
Barium, Dissolved	1.95	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Calcium, Dissolved	56.3	mg/L	2.0	0.050	200.7/6010	11/07/95	KW	1	
Chromium, Dissolved	0.205	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1	
Chromium, Hexavalent Dissolved	2.14	mg/L	1.0	0.015	6010	10/31/95	KW	2	
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	11/20/95	DN	3	
Iron, Dissolved	1.09	mg/L	2.0	0.025	200.7/6010	11/07/95	KW	1	
Lead, Dissolved	0.525	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Magnesium, Dissolved	14.4	mg/L	2.0	0.050	200.7/6010	11/07/95	KW	1	
Manganese, Dissolved	2.71	mg/L	2.0	0.005	200.7/6010	11/06/95	KW	1	
Potassium, Dissolved	27.	mg/L	1.0	3	200.7/6010	11/03/95	NH	1	
Silicon, Dissolved	19.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Dissolved	100.	mg/L	1.0	1.	200.7/6010	11/03/95	NH	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)
LJ23ICW1
CC: OLIN-TN STEVE MORROW
SMITH-R. SACKS
PTI-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/17/95 by GFB using 7195

⁽³⁾ This is a calculation and is not applicable to a matrix spike.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-26 Report Date: 12/06/95

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SAMPLE DESCRIPTION	MZ	TRIX		SAMPLED	BY	SAMPLED DATE RECEI			
GW-43S (FILIT/MS)	Ac	lneone		T. EBNE	T. EBNER 10/17/95		10/17/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	83.5	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Carbonate, Dissolved as CaCC3	<20.0	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.1	353.2/1	10/25/95	NH	1	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM		
Organic Carbon, Dissolved (DOC)	47.2	mg/L	1.0	1.0	415.1	11/06/95	LT		
Phosphorus, Dissolved as P	0.297	mg/L	1.0	0.10	365.4	11/10/95	CM	2	
Solids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	10/19/95	JF	3,4	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) This is a calculation and is not applicable for this parameter.
- (2) Sample Preparation on 11/09/95 by CIM
- (3) Sample Preparation on 10/18/95 by JF
- (4) Matrix spike analysis is not applicable for this parameter.

12/06/95

LJO/ejnjbb(dw)/pph



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-27 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	ATE	RECEIVED	
GW-43D (FILT)		Aqueous		T. EBI	NER	10/17/95		10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	420.	mg/L	5.0	0.10	200.7/6010	11/07/95	KW	1	
Arsenic, Dissolved	<2.5	mg/L	500	0.005	200.7/6010	11/07/95	KW	1,2	
Barium, Dissolved	<0.025	mg/L	5.0	0.005	200.7/6010	11/06/95	KW	1,2	
Calcium, Dissolved	290.	mg/L	5.0	0.050	200.7/6010	11/07/95	KW	1	
Chromium, Dissolved	320	mg/L	500	0.015	200.7/6010	11/06/95	KW	1	
Chromium, Hexavalent Dissolved	1.6	mg/L	1.0	0.015	6010	10/31/95	KW	3	
Chromium, Trivalent Dissolved	320	mg/L	1.0	0.015	Calculation	11/20/95	DN		
Iron, Dissolved	570.	mg/L	5.0	0.025	200.7/6010	11/07/95	KW	1	
Lead, Dissolved	<0.025	mg/L	5.0	0.005	200.7/6010	11/06/95	KW	1,2	
Magnesium, Dissolved	340.	mg/L	5.0	0.050	200.7/6010	11/07/95	KW	1	
Manganese, Dissolved	66.	mg/L	100	0.005	200.7/6010	11/06/95	KW	1	
Potassium, Dissolved	<30.	mg/L	10	3	200.7/6010	11/03/95	NH	1,2	
Silicon, Dissolved	39.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Dissolved	4300.	mg/L	50	1.	200.7/6010	11/06/95	NH	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW1

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ Sample Preparation on 10/17/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1622-27 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED	RECEIVED			
GW-43D (FILT)	Ac	ueous		T. EBNE	R	10/17/	95	10/17/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	NR.	mg/L	1.0	20	APHA 406C	10/24/95	CM	1
Carbonate, Dissolved as CaCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM	2
Nitrate as N, Dissolved	2.4	mg/L	1.0	0.5	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	540.	mg/L	2.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	3.0	mg/L	10	0.10	365.4	10/26/95	CM	3
Solids-Filt Residue, Dissolved	23000.	mg/L	20	10	160.1	10/20/95	JF	4

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Initial sample pH was <4.5. Bicarbonate could not be analyzed.

⁽²⁾ Initial sample pH was <4.5. Carbonate could not be analyzed.

⁽³⁾ Sample Preparation on 10/25/95 by CLM

⁽⁴⁾ Sample Preparation on 10/19/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-28 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	ATE	RECEIVED
GW-400 (FILT)		Aqueous T. EBNER				11/07/95 KW 11/07/95 KW 11/06/95 KW 11/06/95 KW 11/06/95 KW 10/31/95 KW 11/20/95 DN 11/07/95 KW 11/07/95 KW 11/07/95 KW 11/07/95 KW 11/06/95 KW		10/17/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/07/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1
Barium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	<0.050	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	0.21	mg/L	1.0	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1
Magnesium, Dissolved	<0.050	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Manganese, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	<0.2	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	<1.	mg/L	1.0	1.	200.7/6010	11/03/95	NH	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICWl

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/17/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-28 Report Date: 12/06/95

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SAMPLE DESCRIPTION	MP	TRIX		SAMPLED	ву	SAMPLED I	ETAC	E RECEIVED			
GW-400 (FILT)	Ac	uecus		T. EBNE	R	10/17/9	95				
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES			
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM				
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM				
Nitrate as N, Dissolved	0.13	mg/L	1.0	0.05	353.2/1	10/24/95	NH				
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM				
Organic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	11/06/95	LT				
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1			
Solids-Filt Residue, Dissolved	29.	mg/L	1.0	10	160.1	10/19/95	JF	2			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 10/25/95 by CLM

⁽²⁾ Sample Preparation on 10/18/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-29
Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	DATE RECEIVED		
GW-50S (FILT)		Aqueous		T. EB	NER	10/17/95		10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/07/95	KW	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1	
Barium, Dissolved	0.014	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Calcium, Dissolved	12.	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	2	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/20/95	DN		
Iron, Dissolved	0.057	mg/L	1.0	0.025	200.7/6010	11/07/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1	
Magnesium, Dissolved	2.8	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1	
Manganese, Dissolved	0.37	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Potassium, Dissolved	3	mg/L	1.0	3	200.7/6010	11/03/95	NH	1	
Silicon, Dissolved	7	mg/L	10	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Dissolved	6 6.	mg/L	1.0	1.	200.7/6010	11/03/95	NH	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw) LJ23ICWl

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/17/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-29 Report Date: 12/06/95

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SAMPLE DESCRIPTION	MZ	MATRIX SAMPLED BY				SAMPLED I	SAMPLED DATE		
GW-50S (FILT)	Aqueous T			T. EBNE	R	10/17/9	10/17/95 10/1		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCC3	67.	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Nitrate as N, Dissolved	0.63	mg/L	1.0	0.05	353.2/1	10/25/95	NH		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM		
Organic Carbon, Dissolved (DOC)	3.5	mg/L	1.0	1.0	415.1	11/06/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1	
Solids-Filt Residue, Dissolved	290.	mg/L	1.0	10	160.1	10/19/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 10/25/95 by CLM

⁽²⁾ Sample Preparation on 10/18/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-30 Report Date: 12/06/95

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SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	SAMPLED D	ATE	RECEIVED
GW-50D (FILT)		Aqueous		T. EB	NER	10/17/95		10/17/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/07/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1
Barium, Dissolved	0.017	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	430.	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	0.35	mg/L	1.0	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1
Magnesium, Dissolved	100	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Manganese, Dissolved	13.	mg/L	20	0.005	200.7/6010	11/07/95	KW	1
Potassium, Dissolved	39.	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	8	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	1300.	mg/L	50	1.	200.7/6010	11/06/95	NH	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICWI

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/17/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-30 Report Date: 12/06/95

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SAMPLE DESCRIPTION	M	YTRIX		SAMPLED	PLED BY SAMPLED DATE RECEI				
GW-50D (FILT)	Ac	ueous		T. EBNE	R	10/17/9	BY NOTE:		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	510.	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Nitrate as N, Dissolved	0.36	mg/L	1.0	0.05	353.2/1	10/25/95	NH		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM		
Organic Carbon, Dissolved (DOC)	31.	mg/L	1.0	1.0	415.1	11/06/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1	
Solids-Filt Residue, Dissolved	6000.	mg/L	5.0	10	160.1	10/20/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 10/25/95 by CLM

⁽²⁾ Sample Preparation on 10/19/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-31 Report Date: 12/06/95

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY			SAMPLED D	ATE	RECEIVED		
GW-40S (FILT)		Aqueous		T. EB	NER	10/17/95		10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	0.50	mg/L	1.0	0.10	200.7/6010	11/30/95	EM	1	
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1	
Barium, Dissolved	0.038	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1	
Calcium, Dissolved	B12	mg/L	1.0	0.050	200.7/6010	11/30/95	EM	1,2	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/30/95	EM	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	3	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/30/95	DN		
Iron, Dissolved	0.037	mg/L	1.0	0.025	200.7/6010	11/30/95	EM	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1	
Magnesium, Dissolved	1.1	mg/L	1.0	0.050	200.7/6010	11/30/95	EM	1	
Manganese, Dissolved	0.057	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1	
Potassium, Dissolved	1.5	mg/L	1.0	0.50	200.7/6010	12/01/95	EM	1	
Silicon, Dissolved	2.6	mg/L	1.0	0.10	200.7/6010	12/02/95	EM	1	
Sodium, Dissolved	18	mg/L	1.0	0.10	200.7/6010	12/01/95	EM	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

₩0/ejnejn 1K22ICW3

⁽¹⁾ Sample Preparation on 11/22/95 by JAF using 3010

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was $0.10~{\rm mg/L}$.

⁽³⁾ Sample Preparation on 10/17/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-31 Report Date: 12/06/95

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED	BY	SAMPLED DATE RECEIVED			
GW-40S (FILT)	Ac	ueous				10/17/95			
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Nitrate as N, Dissolved	0.32	mg/L	1.0	0.05	353.2/1	10/25/95	NH		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM		
Organic Carbon, Dissolved (DOC)	1.7	mg/L	1.0	1.0	415.1	11/06/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1	
Solids-Filt Residue, Dissolved	120.	mg/L	1.0	10	160.1	10/19/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 10/25/95 by CIM

⁽²⁾ Sample Preparation on 10/18/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-32 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY					SAMPLED DATE RECEIVED			
GW-40D (FILT)		Aqueous		T. EB	NER	10/17/95 10/17/		10/17/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/30/95	EM	1		
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1		
Barium, Dissolved	0.018	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1		
Calcium, Dissolved	B170	mg/L	1.0	0.050	200.7/6010	11/30/95	EM	1,2		
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/30/95	EM	1		
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	3		
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/30/95	DN			
Iron, Dissolved	0.11	mg/L	1.0	0.025	200.7/6010	11/30/95	EM	1		
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1		
Magnesium, Dissolved	9.7	mg/L	1.0	0.050	200.7/6010	11/30/95	EM	1		
Manganese, Dissolved	1.7	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1		
Potassium, Dissolved	4.3	mg/L	1.0	0.50	200.7/6010	12/01/95	EM	1		
Silicon, Dissolved	1.6	mg/L	1.0	0.10	200.7/6010	12/02/95	EM	1		
Sodium, Dissolved	100	mg/L	5.0	0.10	200.7/6010	12/01/95	EM	1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LK22ICW3

⁽¹⁾ Sample Preparation on 11/22/95 by JAF using 3010

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was $0.10~{\rm mg/L}$.

⁽³⁾ Sample Preparation on 10/17/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-32 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	M	IRIX		SAMPLED	BY	SAMPLED DATE RECEIV			
GW-40D (FILT)	Ac	necne		T. EBNE	R	10/17/9	5	10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	200.	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Nitrate as N, Dissolved	0.14	mg/L	1.0	0.05	353.2/1	10/25/95	NH		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM		
Organic Carbon, Dissolved (DOC)	20.	mg/L	1.0	1.0	415.1	11/06/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1	
Solids-Filt Residue, Dissolved	1300.	mg/L	1.0	10	160.1	10/19/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 10/25/95 by CLM

⁽²⁾ Sample Preparation on 10/18/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-17 Report Date: 12/06/95

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY					ATE	RECEIVED
GW-44S (FILT)	Aqueous		T. EB	T. EBNER		5	10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	4.9	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	0.86	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.011	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	ح3	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	3.1	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	12.	mg/L	1.0	1.	200.7/6010	11/03/95	NH	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw) LJ23ICW1

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/17/95 by GFB using 7195



CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-17 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED	BY	SAMPLED DATE RECEIVED				
GW-44S (FILT)	Ac	ueous		T. EBNE	R	10/17/9	5	10/17/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Bicarbonate, Dissolved as HCO3	24.	mg/L	1.0	20	APHA 406C	10/24/95	CM			
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM			
Nitrate as N, Dissolved	0.13	mg/L	1.0	0.05	353.2/1	10/24/95	NH			
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM			
Organic Carbon, Dissolved (DOC)	1.3	mg/L	1.0	1.0	415.1	11/03/95	LT			
Phosphorus, Dissolved as P	1.1	mg/L	10	0.10	365.4	10/26/95	CM	1		
Solids-Filt Residue, Dissolved	58.	mg/L	1.0	10	160.1	10/19/95	JF	2		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 10/25/95 by CIM

⁽²⁾ Sample Preparation on 10/18/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-18 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY					ATE	RECEIVED
GW-44D (FILT)	Aqueous		T. EBI	NER	10/17/95		10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	1300	mg/L	100	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<2.5	mg/1	500	0.005	200.7/6010	11/06/95	KW	1,2
Barium, Dissolved	<0.50	mg/L	100	0.005	200.7/6010	11/06/95	KW	1,2
Calcium, Dissolved	500	mg/L	100	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	900	mg/L	500	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	4.7	mg/L	1.0	0.015	6010	11/03/95	KW	3
Chromium, Trivalent Dissolved	900	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	2500.	mg/L	100	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.50	mg/L	100	0.005	200.7/6010	11/06/95	KW	1,2
Magnesium, Dissolved	1100	mg/L	100	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	160	mg/L	100	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	100.	mg/L	20	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	63.	mg/L	20	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	11000.	mg/L	50	1.	200.7/6010	11/06/95	NH	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

WO/ejnejn W23ICW1

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ Sample Preparation on 10/17/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-18 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED	SAMPLED BY SAMPLED DATE RECEIVE				
GW-44D (FILT)	Ac	ueous		T. EBNE	R	10/17/9	95	10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	NR.	mg/L	1.0	20	APHA 406C	10/24/95	CM	1	
Carbonate, Dissolved as CaCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM	2	
Nitrate as N, Dissolved	5.9	mg/L	1.0	0.5	353.2/1	10/25/95	NH		
Nitrite as N, Dissolved	<0.20	mg/L	4.0	0.050	353.2	10/19/95	CM	3	
Organic Carbon, Dissolved (DOC)	1500.	mg/L	8.0	1.0	415.1	11/03/95	LT		
Phosphorus, Dissolved as P	5.5	mg/L	10	0.10	365.4	10/26/95	CM	4	
Solids-Filt Residue, Dissolved	96000.	mg/L	50	10	160.1	10/20/95	JF	5	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Initial sample pH was <4.5. Bicarbonate could not be analyzed.

⁽²⁾ Initial sample pH was <4.5. Carbonate could not be analyzed.

⁽³⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽⁴⁾ Sample Preparation on 10/25/95 by CLM

⁽⁵⁾ Sample Preparation on 10/19/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-21 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				ED BY	SAMPLED D	ATE	RECEIVED
GW-42S (FILT)		Aqueous		T. EB	NER	10/17/9	5	10/17/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/07/95	GB	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1
Barium, Dissolved	0.031	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	4.7	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	13.	mg/L	1.0	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	1.6	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Manganese, Dissolved	0.82	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	6	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	41.	mg/L	1.0	1.	200.7/6010	11/03/95	NH	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw) LJ23ICW1

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/17/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-21 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M2	TRIX		SAMPLED	ву	SAMPLED I	ETAC	RECEIVED
GW-42S (FILT)	Ac	ineona		T. EBNE	R	10/17/9	95	BY NOTES CM CM NH CM LT
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	11.	mg/L	1.0	1.0	415.1	11/03/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	210.	mg/L	1.0	10	160.1	10/19/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 10/25/95 by CLM

⁽²⁾ Sample Preparation on 10/18/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-22 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY					SAMPLED D	AMPLED DATE RECEIVED		
GW-42D (FILIT)		Aquequs		T. EB	T. EBNER		5	10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	1800.	mg/L	200	0.10	200.7/6010	11/07/95	KW	1	
Arsenic, Dissolved	<10	mg/L	2000	0.005	200.7/6010	11/07/95	KW	1,2	
Barium, Dissolved	<1.0	mg/L	200	0.005	200.7/6010	11/06/95	KW	1,2	
Calcium, Dissolved	440.	mg/L	200	0.050	200.7/6010	11/07/95	KW	1	
Chromium, Dissolved	2600	mg/L	5000	0.015	200.7/6010	11/06/95	KW	1	
Chromium, Hexavalent Dissolved	6.4	mg/L	1.0	0.015	6010	11/03/95	KW	3	
Chromium, Trivalent Dissolved	2600	mg/L	1.0	0.015	Calculation	11/20/95	DN		
Iron, Dissolved	1600.	mg/L	200	0.025	200.7/6010	11/07/95	KW	1	
Lead, Dissolved	<1.0	mg/L	200	0.005	200.7/6010	11/06/95	KW	1,2	
Magnesium, Dissolved	1100	mg/L	200	0.050	200.7/6010	11/07/95	KW	1	
Manganese, Dissolved	470	mg/L	1000	0.005	200.7/6010	11/06/95	KW	1	
Potassium, Dissolved	<60.	mg/L	20	3	200.7/6010	11/03/95	NH	1,2	
Silicon, Dissolved	90.	mg/L	50	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Dissolved	19000.	mg/L	100	1.	200.7/6010	11/06/95	NH	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

WO/ejnejn W23ICW1

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ Sample Preparation on 10/17/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-22 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M ²	IRIX		SAMPLED	SAMPLED BY SAMPLED DATE RECE				
GW-42D (FILIT)	Ac	uecus		T. EBNE	R	10/17/9	BY NOTES CM 1		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Carbonate, Dissolved as CaCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM	2	
Nitrate as N, Dissolved	3.9	mg/L	1.0	0.5	353.2/1	10/25/95	NH		
Nitrite as N, Dissolved	1.2	mg/L	8.0	0.050	353.2	10/19/95	CM		
Organic Carbon, Dissolved (DOC)	2700.	mg/L	20	1.0	415.1	11/03/95	LT		
Phosphorus, Dissolved as P	18.	mg/L	10	0.10	365.4	10/26/95	CM	3	
Solids-Filt Residue, Dissolved	73000.	mg/L	50	10	160.1	10/20/95	JF	4	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Initial sample pH was <4.5. Bicarbonate could not be analyzed.

⁽²⁾ Initial sample pH was <4.5. Carbonate could not be analyzed.

⁽³⁾ Sample Preparation on 10/25/95 by CLM

⁽⁴⁾ Sample Preparation on 10/19/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-23 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY					SAMPLED D	PLED DATE RECEIVED		
FIELD REP 2 (FILT)		Aqueous		T. EB	T. EBNER		5	10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	2000.	mg/L	200	0.10	200.7/6010	11/07/95	KW	1	
Arsenic, Dissolved	<10	mg/L	2000	0.005	200.7/6010	11/07/95	KW	1,2	
Barium, Dissolved	<1.0	mg/L	200	0.005	200.7/6010	11/06/95	KW	1,2	
Calcium, Dissolved	560.	mg/L	200	0.050	200.7/6010	11/07/95	KW	1	
Chromium, Dissolved	2900	mg/L	5000	0.015	200.7/6010	11/06/95	KW	1	
Chromium, Hexavalent Dissolved	6.4	mg/L	1.0	0.015	6010	11/03/95	KW	3	
Chromium, Trivalent Dissolved	2900	mg/L	1.0	0.015	Calculation	11/20/95	DN		
Iron, Dissolved	1800.	mg/L	200	0.025	200.7/6010	11/07/95	KW	1	
Lead, Dissolved	<1.0	mg/L	200	0.005	200.7/6010	11/06/95	KW	1,2	
Magnesium, Dissolved	1200.	mg/L	200	0.050	200.7/6010	11/07/95	KW	1	
Manganese, Dissolved	550	mg/L	1000	0.005	200.7/6010	11/06/95	KW	1	
Potassium, Dissolved	60	mg/L	20	3	200.7/6010	11/03/95	NH	1	
Silicon, Dissolved	100.	mg/L	50	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Dissolved	21000.	mg/L	100	1.	200.7/6010	11/06/95	NH	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICWl CC: OLIN-TN STEVE MORROW SMITH-R. SACKS

PTI-CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ Sample Preparation on 10/17/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1622-23
Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED	SAMPLED BY SAMPLED DATE RECEI				
FIELD REP 2 (FILT)	Ac	ruecus		T. EBNE	R	10/17/	95	10/17/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	ВУ	NOTES	
Bicarbonate, Dissolved as HCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM	1	
Carbonate, Dissolved as CaCO3	NTR	mg/L	1.0	20	APHA 406C	10/24/95	CM	2	
Nitrate as N, Dissolved	3.6	mg/L	1.0	0.5	353.2/1	10/25/95	NH		
Nitrite as N, Dissolved	1.8	mg/L	8.0	0.050	353.2	10/19/95	CM		
Organic Carbon, Dissolved (DOC)	2500.	mg/L	20	1.0	415.1	11/03/95	LT		
Phosphorus, Dissolved as P	27.	mg/L	10	0.10	365.4	10/26/95	M	3	
Solids-Filt Residue, Dissolved	89000.	mg/L	50	10	160.1	10/20/95	JF	4	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Initial sample pH was <4.5. Bicarbonate could not be analyzed.

⁽²⁾ Initial sample pH was <4.5. Carbonate could not be analyzed.

⁽³⁾ Sample Preparation on 10/25/95 by CLM

⁽⁴⁾ Sample Preparation on 10/19/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-1 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX			ED BY	SAMPLED D	ATE	RECEIVED
SW-14 (FILT)		Aqueous		T. EB	NER	10/18/95		10/18/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.009	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	9.7	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	B0.25	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	0.81	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.013	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	1.0	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	59.	mg/L	1.0	1	200.7/6010	11/03/95	NH	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW2

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/18/95 by GFB using 7195

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1628-1 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX SAMPLED BY				SAMPLED D	RECEIVED		
SW-14 (FILT)	Aqueous			T. EBNE	R	10/18/95		10/18/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	35	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	0.41	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.20	mg/L	4.0	0.050	353.2	10/19/95	LT	1
Organic Carbon, Dissolved (DOC)	6.8	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	2
Solids-Filt Residue, Dissolved	260.	mg/L	1.0	10	160.1	10/23/95	JF	3

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽²⁾ Sample Preparation on 10/25/95 by CIM

⁽³⁾ Sample Preparation on 10/20/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-2 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX			ED BY	SAMPLED D	ATE	RECEIVED	
SW-12 (FILT)		Aqueous		T. EB	NER	10/18/95		10/18/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	0.31	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1	
Arsenic, Dissolved	0.010	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1	
Barium, Dissolved	0.022	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Calcium, Dissolved	7.9	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	2	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN		
Iron, Dissolved	B4.8	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Magnesium, Dissolved	1.3	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Manganese, Dissolved	0.51	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Potassium, Dissolved	5	mg/L	1.0	3	200.7/6010	11/03/95	NH	1	
Silicon, Dissolved	2.1	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Dissolved	27.	mg/L	1.0	. 1	200.7/6010	11/03/95	NH	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW2

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/18/95 by GFB using 7195

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-2 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		T. EBNER 10/18/9			DATE	ATE RECEIVED	
SW-12 (FILT)	Ac	rueous	·····				95 10/18/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Nitrate as N, Dissolved	0.58	mg/L	1.0	0.05	353.2/1	10/25/95	NH		
Nitrite as N, Dissolved	<0.50	mg/L	10	0.050	353.2	10/19/95	LT	1	
Organic Carbon, Dissolved (DOC)	19.	mg/L	1.0	1.0	415.1	11/06/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	2	
Solids-Filt Residue, Dissolved	180.	mg/L	1.0	10	160.1	10/23/95	JF	3	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽²⁾ Sample Preparation on 10/25/95 by CLM

⁽³⁾ Sample Preparation on 10/20/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-3 Report Date: 12/06/95

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REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			MATRIX SAMPLED BY					SAMPLED D	ATE	RECEIVED
SW-12 (FILT/DUP)	Aqueous		T. EB	NER	10/18/95		10/18/95				
PARAMETER	RESOLT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES			
Aluminum, Dissolved	0.281	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1			
Arsenic, Dissolved	0.007	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1			
Barium, Dissolved	0.020	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1			
Calcium, Dissolved	7.52	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1			
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1			
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	2			
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN				
Iron, Dissolved	B4.41	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3			
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1			
Magnesium, Dissolved	1.27	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1			
Manganese, Dissolved	0.491	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1			
Potassium, Dissolved	5	mg/L	1.0	3	200.7/6010	11/03/95	NH	1			
Silicon, Dissolved	2.1	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1			
Sodium, Dissolved	27.	mg/L	1.0	1	200.7/6010	11/03/95	NH	1			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW2



⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/18/95 by GFB using 7195

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-3 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED BY SAMPLED DATE RECO					
SW-12 (FILT/DUP)	Ac	ineona		T. EBNE	R	10/18/95		10/18/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCC3	<20.0	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/25/95	NH		
Nitrite as N, Dissolved	<0.500	mg/L	10	0.050	353.2	10/19/95	LT	1	
Organic Carbon, Dissolved (DOC)	18.4	mg/L	1.0	1.0	415.1	11/06/95	LT		
Phosphorus, Dissolved as P	<0.100	mg/L	1.0	0.10	365.4	10/26/95	CM	2	
Solids-Filt Residue, Dissolved	189	mg/L	1.0	10	160.1	10/23/95	JF	3	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb (dw) /pph

⁽¹⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽²⁾ Sample Preparation on 10/25/95 by CLM

⁽³⁾ Sample Preparation on 10/20/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1628-4 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	D DATE RECEIVED		
SW-12 (FILT/MS)		Aquecus	<u> </u>	T. EB	NER	10/18/9	5	10/18/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	ву	NOTES	
Aluminum, Dissolved	2.02	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1	
Arsenic, Dissolved	1.78	mg/1	1.0	0.005	200.7/6010	11/06/95	KW	1	
Barium, Dissolved	1.75	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Calcium, Dissolved	8.57	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Chromium, Dissolved	0.171	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1	
Chromium, Hexavalent Dissolved	1.99	mg/L	1.0	0.015	6010	11/14/95	KW	2	
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	11/22/95	DN	3	
Iron, Dissolved	B4.45	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,4	
Lead, Dissolved	0.420	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Magnesium, Dissolved	5.51	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Manganese, Dissolved	0.827	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Potassium, Dissolved	27.	mg/L	1.0	3	200.7/6010	11/03/95	NH	1	
Silicon, Dissolved	3.8	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW2

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/18/95 by GFB using 7195

⁽⁴⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.

⁽³⁾ This is a calculation and is not applicable to a matrix spike.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-4 Report Date: 12/06/95

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SAMPLE DESCRIPTION		MATRIX		SAMP	LED BY	SAMPLED D	RECEIVED	
SW-12 (FILT/MS)	Aqueous		T. EBNER		10/18/95		10/18/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	29.	mg/L	1.0		1 200.7/6010	11/03/95	NH	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/23/95 by VM using 3010

12/06/95

LJO/ejnejn LJ23ICW2



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1628-4 Report Date: 12/06/95

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SAMPLE DESCRIPTION	N	ATRIX		SAMPLE	SAMPLED BY SAMPLED DATE RE				
SW-12 (FILIT/MS)		queous		T. EBN	========= 9R	10/18/95		10/18/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	<20.0	mg/L	1.0	20	ALPHA 406C	10/24/95	CM		
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	10/24/95	CM		
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.05	353.2/1	10/25/95	NH	1	
Nitrite as N, Dissolved	4.52	mg/L	10	0.050	353.2	10/19/95	LT		
Organic Carbon, Dissolved (DOC)	57.5	mg/L	1.0	1.0	415.1	11/06/95	LT		
Phosphorus, Dissolved as P	0.793	mg/L	1.0	0.10	365.4	11/10/95	CM	2	
Solids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	10/23/95	JF	3,4	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb (dw) /pph

⁽¹⁾ This is a calculation and is not applicable to a matrix spike.

⁽²⁾ Sample Preparation on 11/09/95 by CIM

⁽³⁾ Sample Preparation on 10/20/95 by JF

⁽⁴⁾ Matrix spike analysis is not applicable for this parameter.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1628-5 Report Date: 12/06/95

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SAMPLE DESCRIPTION		MATRIX SA			ED BY	SAMPLED D	ATE	W 1 W 1 W 1 W 1 W 1 W 2 N W 1,3		
SW-17 (FILT)		Aqueous		T. EB	NER	10/18/95		10/18/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES		
Aluminum, Dissolved	0.12	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1		
Arsenic, Dissolved	0.007	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1		
Barium, Dissolved	0.044	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1		
Calcium, Dissolved	110.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1		
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1		
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	2		
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN			
Iron, Dissolved	B3.7	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3		
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1		
Magnesium, Dissolved	6.8	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1		
Manganese, Dissolved	0.75	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1		
Potassium, Dissolved	4	mg/L	1.0	3	200.7/6010	11/04/95	NH	1		
Silicon, Dissolved	8	mg/L	10	0.2	200.7/6010	11/06/95	NH	1		
Sodium, Dissolved	140.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW2

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/18/95 by GFB using 7195

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-5 Report Date: 12/06/95

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SAMPLE DESCRIPTION	M	MATRIX SAMPLED BY :			SAMPLED I	DATE	RECEIVED	
SW-17 (FILT)	Ac				10/18/95		10/18/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	ву	NOTES
Bicarbonate, Dissolved as HCO3	190.	mg/L	1.0	20	APHA 406C	10/24/95	QM.	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	6.0	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.50	mg/L	10	0.050	353.2	10/19/95	LT	1
Organic Carbon, Dissolved (DOC)	19.	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	2
Solids-Filt Residue, Dissolved	930.	mg/L	1.0	10	160.1	10/23/95	JF	3

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)



⁽¹⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽²⁾ Sample Preparation on 10/25/95 by CLM

⁽³⁾ Sample Preparation on 10/20/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-6 Report Date: 12/06/95

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	SAMPLED DATE RECEIVED		
SW FIELD REP (FILT)		Aqueous		T. EB	NER	10/18/95		10/18/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	0.14	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1	
Arsenic, Dissolved	0.009	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1	
Barium, Dissolved	0.047	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Calcium, Dissolved	120.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Chramium, Dissolved	0.017	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	2	
Chromium, Trivalent Dissolved	0.017	mg/L	1.0	0.015	Calculation	11/22/95	DN		
Iron, Dissolved	B4.1	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Magnesium, Dissolved	7.1	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Manganese, Dissolved	0.80	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Potassium, Dissolved	5	mg/L	1.0	3	200.7/6010	11/04/95	NH	1	
Silicon, Dissolved	8	mg/L	10	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Dissolved	150.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW2

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/18/95 by GFB using 7195

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1628-6 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED	RECEIVED			
SW FIELD REP (FILIT)	Ac	rueous I		T. EBNE	R	10/18/95 10/		10/18/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	190.	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N. Dissolved	6.7	mg/L	1.0	0.1	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.50	mg/L	10	0.050	353.2	10/19/95	LT	1
Organic Carbon, Dissolved (DOC)	19.	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<1.0	mg/L	10	0.10	365.4	10/30/95	CM	2,1
Solids-Filt Residue, Dissolved	. 860.	mg/L	1.0	10	160.1	10/23/95	JF	3

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽²⁾ Sample Preparation on 10/27/95 by CIM

⁽³⁾ Sample Preparation on 10/20/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-7 Report Date: 12/06/95

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SAMPLE DESCRIPTION		MATRIX SAMPLE			ED BY	SAMPLED D	ATE	RECEIVED	
SW-16 (FILT)		Aquecus		T. EBI	NER	10/18/95		10/18/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1	
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1	
Barium, Dissolved	0.021	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Calcium, Dissolved	290.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	2	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN		
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	11/14/95	KW	1	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Magnesium, Dissolved	5.9	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Manganese, Dissolved	0.42	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Potassium, Dissolved	4	mg/L	1.0	3	200.7/6010	11/04/95	NH	1	
Silicon, Dissolved	0.5	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Dissolved	93.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW2

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/18/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-7 Report Date: 12/06/95

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SAMPLE DESCRIPTION	M	MATRIX SAMPLED BY				SAMPLED BY SAMPLED DATE RECEIVE					LED BY SAMPLED DAT		
SW-16 (FILT)	Ac	lueous		T. EBNER 10/			5	10/18/95					
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES					
Bicarbonate, Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM						
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM						
Nitrate as N. Dissolved	4.2	mg/L	1.0	0.05	353.2/1	10/25/95	NH						
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	LT						
Organic Carbon, Dissolved (DOC)	12.	mg/L	1.0	1.0	415.1	11/06/95	LT						
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/30/95	CM	1					
Solids-Filt Residue, Dissolved	1400.	mg/L	1.0	10	160.1	10/23/95	JF	2					

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PIT/CHRIS SELLSTONE

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<sup>(1)</sup> Sample Preparation on 10/27/95 by CLM

<sup>(2)</sup> Sample Preparation on 10/20/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1628-8 Report Date: 12/06/95

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| SAMPLE DESCRIPTION             | MATRIX SAMPLED |       |       | ED BY | SAMPLED D   | ATE      | RECEIVED |       |
|--------------------------------|----------------|-------|-------|-------|-------------|----------|----------|-------|
| GW-500 (FILT)                  | Aqueous        |       | T. EB | NER   | 10/18/95    |          | 10/18/95 |       |
| PARAMETER                      | RESULT         | UNITS | DF    | +PQL  | METHOD      | ANALYZED | BY       | NOTES |
| Aluminum, Dissolved            | <0.10          | mg/L  | 1.0   | 0.10  | 200.7/6010  | 11/06/95 | KW       | 1     |
| Arsenic, Dissolved             | <0.005         | mg/l  | 1.0   | 0.005 | 200.7/6010  | 11/06/95 | KW       | 1     |
| Barium, Dissolved              | <0.005         | mg/L  | 1.0   | 0.005 | 200.7/6010  | 11/06/95 | KW       | 1     |
| Calcium, Dissolved             | <0.050         | mg/L  | 1.0   | 0.050 | 200.7/6010  | 11/18/95 | KW       | 2     |
| Chromium, Dissolved            | <0.015         | mg/L  | 1.0   | 0.015 | 200.7/6010  | 11/06/95 | KW       | 1     |
| Chromium, Hexavalent Dissolved | <0.015         | mg/L  | 1.0   | 0.015 | 6010        | 11/15/95 | KW       | 3     |
| Chromium, Trivalent Dissolved  | <0.015         | mg/L  | 1.0   | 0.015 | Calculation | 11/22/95 | DN       |       |
| Iron, Dissolved                | <0.025         | mg/L  | 1.0   | 0.025 | 200.7/6010  | 11/06/95 | KW       | 1     |
| Lead, Dissolved                | <0.005         | mg/L  | 1.0   | 0.005 | 200.7/6010  | 11/06/95 | KW       | 1     |
| Magnesium, Dissolved           | <0.050         | mg/L  | 1.0   | 0.050 | 200.7/6010  | 11/06/95 | KW       | 1     |
| Manganese, Dissolved           | <0.005         | mg/L  | 1.0   | 0.005 | 200.7/6010  | 11/06/95 | KW       | 1     |
| Potassium, Dissolved           | <3             | mg/L  | 1.0   | 3     | 200.7/6010  | 11/04/95 | NH       | 1     |
| Silicon, Dissolved             | <0.2           | mg/L  | 1.0   | 0.2   | 200.7/6010  | 11/06/95 | NH       | 1     |
| Sodium, Dissolved              | <1             | mg/L  | 1.0   | 1     | 200.7/6010  | 11/04/95 | NH       | 1     |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW2

<sup>(1)</sup> Sample Preparation on 10/23/95 by VM using 3010

<sup>(2)</sup> Sample Preparation on 11/15/95 by GFB using 3010

<sup>(3)</sup> Sample Preparation on 10/18/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1628-8 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION              | M      | MATRIX SAMPLED BY |     |          |           | SAMPLED I | DATE | RECEIVED |  |
|---------------------------------|--------|-------------------|-----|----------|-----------|-----------|------|----------|--|
| GW-500 (FILIT)                  | Ac     | neone             |     | T. EBNER |           | 10/18/95  |      | 10/18/95 |  |
| PARAMETER                       | RESULT | UNITS             | DF  | *PQL     | METHOD    | ANALYZED  | BY   | NOTES    |  |
| Bicarbonate, Dissolved as HCO3  | NR.    | mg/L              | 1.0 | 20       | APHA 406C | 10/24/95  | CM   | 1        |  |
| Carbonate, Dissolved as CaCO3   | NR     | mg/L              | 1.0 | 20       | APHA 406C | 10/24/95  | CM   | 2        |  |
| Nitrate as N, Dissolved         | 0.08   | mg/L              | 1.0 | 0.05     | 353.2/1   | 10/25/95  | NH   |          |  |
| Nitrite as N, Dissolved         | <0.050 | mg/L              | 1.0 | 0.050    | 353.2     | 10/19/95  | LT   |          |  |
| Organic Carbon, Dissolved (DOC) | <1.0   | mg/L              | 1.0 | 1.0      | 415.1     | 11/06/95  | LT   |          |  |
| Phosphorus, Dissolved as P      | <1.0   | mg/L              | 10  | 0.10     | 365.4     | 10/30/95  | CM   | 3,4      |  |
| Solids-Filt Residue, Dissolved  | 50.    | mg/L              | 1.0 | 10       | 160.1     | 10/23/95  | JF   | 5        |  |

- \* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
- (1) Initial sample pH was <4.5. Bicarbonate could not be analyzed.
- (2) Initial sample pH was <4.5. Carbonate could not be analyzed.
- (3) Sample Preparation on 10/27/95 by CLM
- (4) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
- (5) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)





OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-9 Report Date: 12/06/95

PO No. : SE-CH

: SE-CH-827-VAR-C

# REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION             | MATRIX  |       |       | SAMPL | ED BY       | SAMPLED D | ATE      | RECEIVED |
|--------------------------------|---------|-------|-------|-------|-------------|-----------|----------|----------|
| GW-77S (FILT)                  | Aqueous |       | T. EB | NER   | 10/18/95    |           | 10/18/95 |          |
| PARAMETER                      | RESULT  | UNITS | DF    | *PQL  | METHOD      | ANALYZED  | BY       | NOTES    |
| Aluminum, Dissolved            | 0.20    | mg/L  | 1.0   | 0.10  | 200.7/6010  | 11/06/95  | KW       | 1        |
| Arsenic, Dissolved             | <0.005  | mg/l  | 1.0   | 0.005 | 200.7/6010  | 11/06/95  | KW       | 1        |
| Barium, Dissolved              | 0.015   | mg/L  | 1.0   | 0.005 | 200.7/6010  | 11/06/95  | KW       | 1        |
| Calcium, Dissolved             | 27.     | mg/L  | 1.0   | 0.050 | 200.7/6010  | 11/06/95  | KW       | 1        |
| Chromium, Dissolved            | 0.028   | mg/L  | 1.0   | 0.015 | 200.7/6010  | 11/06/95  | KW       | 1        |
| Chromium, Hexavalent Dissolved | <0.015  | mg/L  | 1.0   | 0.015 | 6010        | 11/15/95  | KW       | 2        |
| Chromium, Trivalent Dissolved  | 0.028   | mg/L  | 1.0   | 0.015 | Calculation | 11/22/95  | DИ       |          |
| Iron, Dissolved                | 0.33    | mg/L  | 1.0   | 0.025 | 200.7/6010  | 11/18/95  | KW       | 3        |
| Lead, Dissolved                | <0.005  | mg/L  | 1.0   | 0.005 | 200.7/6010  | 11/06/95  | KW       | 1        |
| Magnesium, Dissolved           | 3.0     | mg/L  | 1.0   | 0.050 | 200.7/6010  | 11/06/95  | KW       | 1        |
| Manganese, Dissolved           | 0.21    | mg/L  | 1.0   | 0.005 | 200.7/6010  | 11/06/95  | KW       | 1        |
| Potassium, Dissolved           | હ       | mg/L  | 1.0   | 3     | 200.7/6010  | 11/04/95  | NH       | 1        |
| Silicon, Dissolved             | 4.6     | mg/L  | 1.0   | 0.2   | 200.7/6010  | 11/06/95  | NH       | 1        |
| Sodium, Dissolved              | 35.     | mg/L  | 1.0   | 1     | 200.7/6010  | 11/04/95  | NH       | 1        |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW2

<sup>(1)</sup> Sample Preparation on 10/23/95 by VM using 3010

<sup>(2)</sup> Sample Preparation on 10/18/95 by GFB using 7195

<sup>(3)</sup> Sample Preparation on 11/15/95 by GFB using 3010



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-9 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION              | M      | TRIX   |     | SAMPLED  | RECEIVED  |          |    |          |  |
|---------------------------------|--------|--------|-----|----------|-----------|----------|----|----------|--|
| GW-77S (FILIT)                  | Ac     | rueous |     | T. EBNER |           | 10/18/95 |    | 10/18/95 |  |
| PARAMETER                       | RESULT | UNITS  | DF  | *PQL     | METHOD    | ANALYZED | BY | NOTES    |  |
| Bicarbonate, Dissolved as HCO3  | 42.    | mg/L   | 1.0 | 20       | APHA 406C | 10/24/95 | CM |          |  |
| Carbonate, Dissolved as CaCO3   | <20    | mg/L   | 1.0 | 20       | APHA 406C | 10/24/95 | CM |          |  |
| Nitrate as N, Dissolved         | 0.37   | mg/L   | 1.0 | 0.05     | 353.2/1   | 10/25/95 | NH |          |  |
| Nitrite as N, Dissolved         | <0.050 | mg/L   | 1.0 | 0.050    | 353.2     | 10/19/95 | LT |          |  |
| Organic Carbon, Dissolved (DOC) | 8.2    | mg/L   | 1.0 | 1.0      | 415.1     | 11/06/95 | LT |          |  |
| Phosphorus, Dissolved as P      | 1.3    | mg/L   | 10  | 0.10     | 365.4     | 10/30/95 | CM | 1        |  |
| Solids-Filt Residue, Dissolved  | 270.   | mg/L   | 1.0 | 10       | 160.1     | 10/23/95 | JF | 2        |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

<sup>(1)</sup> Sample Preparation on 10/27/95 by CLM

<sup>(2)</sup> Sample Preparation on 10/20/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-10 Report Date: 12/06/95

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| SAMPLE DESCRIPTION             | MATRIX |         |     | SAMPL | ED BY       | SAMPLED D | ATE | RECEIVED |
|--------------------------------|--------|---------|-----|-------|-------------|-----------|-----|----------|
| GW-42S (FILIT)                 |        | Aqueous |     | T. EB | NER.        | 10/18/95  |     | 10/18/95 |
| PARAMETER                      | RESULT | UNITS   | DF  | *PQL  | METHOD      | ANALYZED  | BY  | NOTES    |
| Aluminum, Dissolved            | 0.38   | mg/L    | 1.0 | 0.10  | 200.7/6010  | 11/06/95  | KW  | 1        |
| Arsenic, Dissolved             | <0.005 | mg/1    | 1.0 | 0.005 | 200.7/6010  | 11/06/95  | KW  | 1        |
| Barium, Dissolved              | 0.031  | mg/L    | 1.0 | 0.005 | 200.7/6010  | 11/06/95  | KW  | 1        |
| Calcium, Dissolved             | 4.4    | mg/L    | 1.0 | 0.050 | 200.7/6010  | 11/06/95  | KW  | 1        |
| Chromium, Dissolved            | <0.015 | mg/L    | 1.0 | 0.015 | 200.7/6010  | 11/06/95  | KW  | 1        |
| Chromium, Hexavalent Dissolved | <0.015 | mg/L    | 1.0 | 0.015 | 6010        | 11/15/95  | KW  | 2        |
| Chromium, Trivalent Dissolved  | <0.015 | mg/L    | 1.0 | 0.015 | Calculation | 11/22/95  | DN  |          |
| Iron, Dissolved                | B15    | mg/L    | 1.0 | 0.025 | 200.7/6010  | 11/06/95  | KW  | 1,3      |
| Lead, Dissolved                | <0.005 | mg/L    | 1.0 | 0.005 | 200.7/6010  | 11/06/95  | KW  | 1        |
| Magnesium, Dissolved           | 1.5    | mg/L    | 1.0 | 0.050 | 200.7/6010  | 11/06/95  | KW  | 1        |
| Manganese, Dissolved           | 0.85   | mg/L    | 1.0 | 0.005 | 200.7/6010  | 11/06/95  | KW  | 1        |
| Potassium, Dissolved           | <3     | mg/L    | 1.0 | 3     | 200.7/6010  | 11/04/95  | NH  | 1        |
| Silicon, Dissolved             | 6      | mg/L    | 1.0 | 0.2   | 200.7/6010  | 11/06/95  | NH  | 1        |
| Sodium, Dissolved              | 45     | mg/L    | 1.0 | 1     | 200.7/6010  | 11/04/95  | NH  | 1        |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

₩0/ejnejn ₩23ICW2

<sup>(1)</sup> Sample Preparation on 10/23/95 by VM using 3010

<sup>(2)</sup> Sample Preparation on 10/18/95 by GFB using 7195

<sup>(3)</sup> A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-10 Report Date: 12/06/95

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| SAMPLE DESCRIPTION              | M      | MATRIX SAMPLED BY |     |         |           | SAMPLED I | ATE | RECEIVED |  |
|---------------------------------|--------|-------------------|-----|---------|-----------|-----------|-----|----------|--|
| GW-42S (FILIT)                  | Ac     | neona             |     | T. EBNE | R         | 10/18/95  |     | 10/18/95 |  |
| PARAMETER                       | RESULT | UNITS             | DF  | *PQL    | METHOD    | ANALYZED  | BY  | NOTES    |  |
| Bicarbonate, Dissolved as HCO3  | 23.    | mg/L              | 1.0 | 20      | APHA 406C | 10/24/95  | CM  |          |  |
| Carbonate, Dissolved as CaCO3   | <20    | mg/L              | 1.0 | 20      | APHA 406C | 10/24/95  | CM  |          |  |
| Nitrate as N, Dissolved         | <0.05  | mg/L              | 1.0 | 0.05    | 353.2/1   | 10/25/95  | NH  |          |  |
| Nitrite as N, Dissolved         | <0.050 | mg/L              | 1.0 | 0.050   | 353.2     | 10/19/95  | LT  |          |  |
| Organic Carbon, Dissolved (DOC) | 13.    | mg/L              | 1.0 | 1.0     | 415.1     | 11/07/95  | LT  |          |  |
| Phosphorus, Dissolved as P      | <0.10  | mg/L              | 1.0 | 0.10    | 365.4     | 10/26/95  | CM  | 1        |  |
| Solids-Filt Residue, Dissolved  | 280.   | mg/L              | 1.0 | 10      | 160.1     | 10/23/95  | JF  | 2        |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results amnotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PIT/CHRIS SELLSTONE

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<sup>(1)</sup> Sample Preparation on 10/26/95 by CIM

<sup>(2)</sup> Sample Preparation on 10/20/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1628-11 Report Date: 12/06/95

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| SAMPLE DESCRIPTION             | MATRIX  |       |       | SAMPL | ED BY       | SAMPLED D | ATE      | RECEIVED |
|--------------------------------|---------|-------|-------|-------|-------------|-----------|----------|----------|
| GW-42S (FILT/DUP)              | Aqueous |       | T. EB | NER   | 10/18/95    |           | 10/18/95 |          |
| PARAMETER                      | RESULT  | UNITS | DF    | *PQL  | METHOD      | ANALYZED  | BY       | NOTES    |
| Aluminum, Dissolved            | 0.465   | mg/L  | 1.0   | 0.10  | 200.7/6010  | 11/06/95  | KW       | 1        |
| Arsenic, Dissolved             | 0.005   | mg/l  | 1.0   | 0.005 | 200.7/6010  | 11/06/95  | KW       | 1        |
| Barium, Dissolved              | 0.035   | mg/L  | 1.0   | 0.005 | 200.7/6010  | 11/06/95  | KW       | 1        |
| Calcium, Dissolved             | 4.91    | mg/L  | 1.0   | 0.050 | 200.7/6010  | 11/06/95  | KW       | 1        |
| Chromium, Dissolved            | <0.015  | mg/L  | 1.0   | 0.015 | 200.7/6010  | 11/06/95  | KW       | 1        |
| Chromium, Hexavalent Dissolved | <0.015  | mg/L  | 1.0   | 0.015 | 6010        | 11/15/95  | KW       | 2        |
| Chromium, Trivalent Dissolved  | <0.015  | mg/L  | 1.0   | 0.015 | Calculation | 11/22/95  | DN       |          |
| Iron, Dissolved                | B16.2   | mg/L  | 1.0   | 0.025 | 200.7/6010  | 11/06/95  | KW       | 1,3      |
| Lead, Dissolved                | <0.005  | mg/L  | 1.0   | 0.005 | 200.7/6010  | 11/06/95  | KW       | 1        |
| Magnesium, Dissolved           | 1.72    | mg/L  | 1.0   | 0.050 | 200.7/6010  | 11/06/95  | KW       | 1        |
| Manganese, Dissolved           | 0.940   | mg/L  | 1.0   | 0.005 | 200.7/6010  | 11/06/95  | KW       | 1        |
| Potassium, Dissolved           | <3      | mg/L  | 1.0   | 3     | 200.7/6010  | 11/04/95  | NH       | 1        |
| Silicon, Dissolved             | 7       | mg/L  | 10    | 0.2   | 200.7/6010  | 11/06/95  | NH       | 1        |
| Sodium, Dissolved              | 50.     | mg/L  | 1.0   | 1     | 200.7/6010  | 11/04/95  | NH       | 1        |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW2

CC: OLIN-TN/STEVE MORROW SMTTH/RICK SACKS PTI/CHRIS SELLSTONE

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<sup>(1)</sup> Sample Preparation on 10/23/95 by VM using 3010

<sup>(2)</sup> Sample Preparation on 10/18/95 by GFB using 7195

<sup>(3)</sup> A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-11
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# REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION              | MATRIX SAMPLED BY  Aqueous T. EBNER |       | SAMPLED I | DATE  | RECEIVED  |          |          |       |
|---------------------------------|-------------------------------------|-------|-----------|-------|-----------|----------|----------|-------|
| GW-42S (FILIT/DUP)              |                                     |       | T. EBNER  |       | 10/18/95  |          | 10/18/95 |       |
| PARAMETER                       | RESULT                              | UNITS | DF        | *PQL  | METHOD    | ANALYZED | BY       | NOTES |
| Bicarbonate, Dissolved as HCO3  | 23.6                                | mg/L  | 1.0       | 20    | APHA 406C | 10/25/95 | CM       |       |
| Carbonate, Dissolved as CaCO3   | <20.0                               | mg/L  | 1.0       | 20    | APHA 406C | 10/25/95 | CM       |       |
| Nitrate as N, Dissolved         | <0.05                               | mg/L  | 1.0       | 0.05  | 353.2/1   | 10/25/95 | NH       |       |
| Nitrite as N, Dissolved         | <0.050                              | mg/L  | 1.0       | 0.050 | 353.2     | 10/19/95 | LT       |       |
| Organic Carbon, Dissolved (DOC) | 12.8                                | mg/L  | 1.0       | 1.0   | 415.1     | 11/07/95 | LT       |       |
| Phosphorus, Dissolved as P      | <0.100                              | mg/L  | 1.0       | 0.10  | 365.4     | 10/26/95 | CM       | 1     |
| Solids-Filt Residue, Dissolved  | 247                                 | mg/L  | 1.0       | 10    | 160.1     | 10/23/95 | JF       | 2     |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb (dw) /pph



<sup>(1)</sup> Sample Preparation on 10/26/95 by CIM

<sup>(2)</sup> Sample Preparation on 10/20/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-12 Report Date: 12/06/95

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#### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION             |           | MATRIX SAMPLED BY |     |       |             | SAMPLED D | ATE | RECEIVED |
|--------------------------------|-----------|-------------------|-----|-------|-------------|-----------|-----|----------|
| GW-42S (FILIT/MS)              |           | Aqueous           |     | T. EB | NER         | 10/18/95  |     | 10/18/95 |
| PARAMETER                      | RESULT    | UNITS             | DF  | *PQL  | METHOD      | ANALYZED  | BY  | NOTES    |
| Aluminum, Dissolved            | 2.08      | mg/L              | 1.0 | 0.10  | 200.7/6010  | 11/06/95  | KW  | 1        |
| Arsenic, Dissolved             | 1.69      | mg/1              | 1.0 | 0.005 | 200.7/6010  | 11/06/95  | KW  | 1        |
| Barium, Dissolved              | 1.67      | mg/L              | 1.0 | 0.005 | 200.7/6010  | 11/06/95  | KW  | 1        |
| Calcium, Dissolved             | 6.26      | mg/L              | 1.0 | 0.050 | 200.7/6010  | 11/06/95  | KW  | 1        |
| Chromium, Dissolved            | 0.162     | mg/L              | 1.0 | 0.015 | 200.7/6010  | 11/06/95  | KW  | 1        |
| Chromium, Hexavalent Dissolved | 0.056     | mg/L              | 1.0 | 0.015 | 6010        | 11/15/95  | KW  | 2        |
| Chromium, Trivalent Dissolved  | Not Appl. | mg/L              | 1.0 | 0.015 | Calculation | 11/22/95  | DN  | 3        |
| Iron, Dissolved                | B14.6     | mg/L              | 1.0 | 0.025 | 200.7/6010  | 11/06/95  | KW  | 1,4      |
| Lead, Dissolved                | 0.400     | mg/L              | 1.0 | 0.005 | 200.7/6010  | 11/06/95  | KW  | 1        |
| Magnesium, Dissolved           | 5.65      | mg/L              | 1.0 | 0.050 | 200.7/6010  | 11/06/95  | KW  | 1        |
| Manganese, Dissolved           | 1.20      | mg/L              | 1.0 | 0.005 | 200.7/6010  | 11/06/95  | KW  | 1        |
| Potassium, Dissolved           | 24.       | mg/L              | 1.0 | 3     | 200.7/6010  | 11/04/95  | NH  | 1        |
| Silicon, Dissolved             | 8         | mg/L              | 10  | 0.2   | 200.7/6010  | 11/06/95  | NH  | 1        |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW2

<sup>(1)</sup> Sample Preparation on 10/23/95 by VM using 3010

<sup>(2)</sup> Sample Preparation on 10/18/95 by GFB using 7195

<sup>(4)</sup> A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.

<sup>(3)</sup> This is a calculation and is not applicable to a matrix spike.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-12 Report Date: 12/06/95

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| SAMPLE DESCRIPTION |         | MATRIX SAMPLED BY |          | LED BY | SAMPLED DATE RECEIVE |          |          |       |
|--------------------|---------|-------------------|----------|--------|----------------------|----------|----------|-------|
| GW-42S (FILT/MS)   | Aqueous |                   | T. EBNER |        | 10/18/95             |          | 10/18/95 |       |
| PARAMETER          | RESULT  | UNITS             | DF       | *PQL   | METHOD               | ANALYZED | BY       | NOTES |
| Sodium, Dissolved  | 50.     | mg/L              | 1.0      | -      | L 200.7/6010         | 11/04/95 | NH       | 1     |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/23/95 by VM using 3010

12/06/95

LJO/ejnejn LJ23ICW2 CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PTI/CHRIS SELLSTONE

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OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-12 Report Date: 12/06/95

PO No.

: SE-CH-827-VAR-C

### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION              | M         | TRIX   |     | SAMPLED           | SAMPLED BY SAMPLED DATE RECE |          |    |          |  |
|---------------------------------|-----------|--------|-----|-------------------|------------------------------|----------|----|----------|--|
| GW-42S (FILIT/MS)               | Ac        | riecus |     | T. EBNER 10/18/95 |                              |          | 5  | 10/18/95 |  |
| PARAMETER                       | RESULT    | UNITS  | DF  | *PQL              | METHOD                       | ANALYZED | BY | NOTES    |  |
| Bicarbonate, Dissolved as HCO3  | 23.6      | mg/L   | 1.0 | 20                | APHA 406C                    | 10/25/95 | CM | -        |  |
| Carbonate, Dissolved as CaCO3   | <20.0     | mg/L   | 1.0 | 20                | APHA 406C                    | 10/25/95 | CM |          |  |
| Nitrate as N, Dissolved         | Not Appl. | mg/L   | 1.0 | 0.05              | 353.2/1                      | 10/25/95 | NH | 1        |  |
| Nitrite as N, Dissolved         | 0.466     | mg/L   | 1.0 | 0.050             | 353.2                        | 10/19/95 | LT |          |  |
| Organic Carbon, Dissolved (DOC) | 52.9      | mg/L   | 1.0 | 1.0               | 415.1                        | 11/07/95 | LT |          |  |
| Phosphorus, Dissolved as P      | 0.724     | mg/L   | 1.0 | 0.10              | 365.4                        | 11/10/95 | CM | 2        |  |
| Solids-Filt Residue, Dissolved  | Not Appl. | mg/L   | 1.0 | 10                | 160.1                        | 10/23/95 | JF | 3,4      |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)/pph

<sup>(1)</sup> This is a calculation and is not applicable to a matrix spike.

<sup>(2)</sup> Sample Preparation on 11/09/95 by CLM

<sup>(3)</sup> Sample Preparation on 10/20/95 by JF

<sup>(4)</sup> Matrix spike analysis is not applicable for this parameter.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-13 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION             |             | MATRIX SAMPLED BY |     |       | SAMPLED DATE RECEIVED |          |    |          |
|--------------------------------|-------------|-------------------|-----|-------|-----------------------|----------|----|----------|
| GW-76S (FILT)                  |             | Aqueous           |     | T. EB | NER                   | 10/18/95 |    | 10/18/95 |
| PARAMETER                      | RESULT      | UNITS             | DF  | +bār  | METHOD                | ANALYZED | BY | NOTES    |
| Aluminum, Dissolved            | <0.10       | mg/L              | 1.0 | 0.10  | 200.7/6010            | 11/06/95 | KW | 1        |
| Arsenic, Dissolved             | <0.005      | mg/1              | 1.0 | 0.005 | 200.7/6010            | 11/06/95 | KW | 1        |
| Barium, Dissolved              | 0.16        | mg/L              | 1.0 | 0.005 | 200.7/6010            | 11/06/95 | KW | 1        |
| Calcium, Dissolved             | <b>65</b> . | mg/L              | 1.0 | 0.050 | 200.7/6010            | 11/06/95 | KW | 1        |
| Chromium, Dissolved            | <0.015      | mg/L              | 1.0 | 0.015 | 200.7/6010            | 11/06/95 | KW | 1        |
| Chromium, Hexavalent Dissolved | <0.015      | mg/L              | 1.0 | 0.015 | 6010                  | 11/15/95 | KW | 2        |
| Chromium, Trivalent Dissolved  | <0.015      | mg/L              | 1.0 | 0.015 | Calculation           | 11/22/95 | DN |          |
| Iron, Dissolved                | 0.13        | mg/L              | 1.0 | 0.025 | 200.7/6010            | 11/30/95 | EM | 3        |
| Lead, Dissolved                | <0.005      | mg/L              | 1.0 | 0.005 | 200.7/6010            | 11/06/95 | KW | 1        |
| Magnesium, Dissolved           | 6.0         | mg/L              | 1.0 | 0.050 | 200.7/6010            | 11/06/95 | KW | 1        |
| Manganese, Dissolved           | 0.55        | mg/L              | 1.0 | 0.005 | 200.7/6010            | 11/06/95 | KW | 1        |
| Potassium, Dissolved           | વ           | mg/L              | 1.0 | 3     | 200.7/6010            | 11/04/95 | МН | 1        |
| Silicon, Dissolved             | 14.         | mg/L              | 10  | 0.2   | 200.7/6010            | 11/06/95 | NH | 1        |
| Sodium, Dissolved              | 50.         | mg/L              | 1.0 | 1     | 200.7/6010            | 11/04/95 | NH | 1        |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW2

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PIT/CHRIS SELLSTONE

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⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/18/95 by GFB using 7195

⁽³⁾ Sample Preparation on 11/22/95 by JAF using 3010



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-13 Report Date: 12/06/95

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REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MA	TRIX		SAMPLED BY SAMPLED DATE				RECEIVED	
GW-76S (FILIT)	Ac	vecus		T. EBNE	R	10/18/95		10/18/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	100.	mg/L	1.0	20	APHA 406C	10/25/95	CM		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/25/95	CM		
Nitrate as N, Dissolved	1.3	mg/L	1.0	0.05	353.2/1	10/25/95	NH		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	LT		
Organic Carbon, Dissolved (DOC)	8.9	mg/L	1.0	1.0	415.1	11/07/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/30/95	CM	1	
Solids-Filt Residue, Dissolved	510.	mg/L	1.0	10	160.1	10/23/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PTI/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/27/95 by CLM

⁽²⁾ Sample Preparation on 10/20/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1628-14 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION		MATRIX			ED BY	SAMPLED D	ATE	RECEIVED
GW FIELD REP (FILIT)		Aqueous		T. ER	NER	10/18/95		10/18/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<0.005	mg/1	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.15	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	64.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	0.19	mg/L	1.0	0.025	200.7/6010	11/18/95	KW	3
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	5.9	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.55	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Dissolved	14.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	49.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO∕ejnejn LJ23ICW2



⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/18/95 by GFB using 7195

⁽³⁾ Sample Preparation on 11/15/95 by GFB using 3010



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-14 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MF	YTRIX		SAMPLED	BY	SAMPLED I	ATE	RECEIVED
GW FIELD REP (FILT)	Ac	ueous		T. EBNE	R	10/18/95 10/		10/18/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HOO3	100.	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Nitrate as N, Dissolved	1.2	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	LT	
Organic Carbon, Dissolved (DOC)	8.9	mg/L	1.0	1.0	415.1	11/07/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/30/95	CM	1
Solids-Filt Residue, Dissolved	560.	mg/L	1.0	10	160.1	10/23/95	JF	2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 10/27/95 by CLM

⁽²⁾ Sample Preparation on 10/20/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-15 Report Date: 12/06/95

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REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	RECEIVED		
GW-78S (FILT)		Aqueous		T. EE	NER	10/18/95		10/18/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	1.1	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1	
Arsenic, Dissolved	0.008	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1	
Barium, Dissolved	0.016	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Calcium, Dissolved	160.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Chromium, Dissolved	0.22	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	2	
Chromium, Trivalent Dissolved	0.22	mg/L	1.0	0.015	Calculation	11/22/95	DN		
Iron, Dissolved	B5.9	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Magnesium, Dissolved	5.9	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Manganese, Dissolved	0.93	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Potassium, Dissolved	3	mg/L	1.0	3	200.7/6010	11/04/95	NH	1	
Silicon, Dissolved	8	mg/L	10	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Dissolved	64.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW2

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/18/95 by GFB using 7195

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-15 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED	DATE	DATE RECEIVED		
GW-78S (FILT)	Ac	ineone		T. EBNE	R	10/18/95 10		10/18/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	22.	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	LT	
Organic Carbon, Dissolved (DOC)	6.4	mg/L	1.0	1.0	415.1	11/07/95	LT	
Phosphorus, Dissolved as P	<1.0	mg/L	10	0.10	365.4	10/30/95	CM	1,2
Solids-Filt Residue, Dissolved	910.	mg/L	1.0	10	160.1	10/23/95	JF	3

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 10/27/95 by CIM

⁽²⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ Sample Preparation on 10/20/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-16 Report Date: 12/06/95

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REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION		MATRIX SAMPLED BY				SAMPLED D	SAMPLED DATE RECEIVE		
GW-79S (FILIT)		Aqueous		T. EB	NER	10/18/9	10/18/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1	
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1	
Barium, Dissolved	0.018	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Calcium, Dissolved	420.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	2	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN		
Iron, Dissolved	B9.9	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Magnesium, Dissolved	13.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Manganese, Dissolved	1.5	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Potassium, Dissolved	7	mg/L	1.0	3	200.7/6010	11/04/95	NH	. 1	
Silicon, Dissolved	3.2	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Dissolved	310.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW2

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/18/95 by GFB using 7195

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-16 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	M	TRIX		SAMPLED	BY	SAMPLED [PLED DATE RECEIVED				
GW-79S (FILIT)	Ac	neona		T. EBNE	10/18/95		10/18/95				
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES			
Bicarbonate, Dissolved as HCO3	190.	mg/L	1.0	20	APHA 406C	10/25/95	CM				
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/25/95	CM				
Nitrate as N, Dissolved	2.3	mg/L	1.0	0.05	353.2/1	10/25/95	NH				
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	LT				
Organic Carbon, Dissolved (DOC)	21.	mg/L	1.0	1.0	415.1	11/07/95	LT				
Phosphorus, Dissolved as P	<1.0	mg/L	10	0.10	365.4	10/30/95	CM	1,2			
Solids-Filt Residue, Dissolved	1700.	mg/L	1.0	10	160.1	10/23/95	JF	3			

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

₩O/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 10/27/95 by CLM

⁽²⁾ The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

⁽³⁾ Sample Preparation on 10/20/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-17 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	SAMPLED DATE RECEIVED			
GW-50S (FILT)		Aqueous T. EBNER						10/18/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1	
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1	
Barium, Dissolved	0.015	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Calcium, Dissolved	12.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1	
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	2	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN		
Iron, Dissolved	0.068	mg/L	1.0	0.025	200.7/6010	11/18/95	KW	3	
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Magnesium, Dissolved	2.7	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Manganese, Dissolved	0.37	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Potassium, Dissolved	3	mg/L	1.0	3	200.7/6010	11/04/95	NH	1	
Silicon, Dissolved	8	mg/L	10	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Dissolved	74.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW2



⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/18/95 by GFB using 7195

⁽³⁾ Sample Preparation on 11/15/95 by GFB using 3010



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1628-17 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

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SAMPLE DESCRIPTION	MZ	ATRIX		SAMPLED BY SAMPLED DATE RECEI					
GW-50S (FILIT)	Aqueous			T. EBNER		10/18/95		10/18/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Bicarbonate, Dissolved as HCO3	62.	mg/L	1.0	20	APHA 406C	10/25/95	CM		
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/25/95	CM		
Nitrate as N, Dissolved	0.82	mg/L	1.0	0.05	353.2/1	10/25/95	NH		
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	LT		
Organic Carbon, Dissolved (DOC)	2.8	mg/L	1.0	1.0	415.1	11/07/95	LT		
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/30/95	CM	1	
Solids-Filt Residue, Dissolved	340.	mg/L	1.0	10	160.1	10/23/95	JF	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

⁽¹⁾ Sample Preparation on 10/27/95 by CIM

⁽²⁾ Sample Preparation on 10/20/95 by JF



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-18 Report Date: 12/06/95

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SAMPLE DESCRIPTION	MATRIX			SAMPL	SAMPLED BY		ATE	TE RECEIVED	
SW-14 (UNFILT)		Aqueous			T. EBNER		5	10/18/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD .	ANALYZED	BY	NOTES	
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1	
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Barium, Total	0.010	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Calcium, Total	11.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	2	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1	
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN		
Iron, Total	0.37	mg/L	1.0	0.025	200.7/6010	11/18/95	KW	3	
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Magnesium, Total	0.91	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1	
Manganese, Total	0.014	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1	
Potassium, Total	<3	mg/L	1.0	3	200.7/6010	11/04/95	NH	1	
Silicon, Total	1.2	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1	
Sodium, Total	66.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICWZ

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/18/95 by GFB using 7195

⁽³⁾ Sample Preparation on 11/15/95 by GFB using 3010



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1628-19 Report Date: 12/06/95

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SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	ATE	RECEIVED
SW-12 (UNFILIT)		Aqueous		T. EBI	NER	10/18/9	5	10/18/95
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.31	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Total	0.010	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Total	0.020	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Total	7.3	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	. 1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Total	B5.6	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3
Iead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Total	1.2	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Total	0.49	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Total	5	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Total	2.1	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	25.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW2

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ Sample Preparation on 10/18/95 by GFB using 7195

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1628-20 Report Date: 12/06/95

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SAMPLE DESCRIPTION	MATRIX			SAMPLED BY		SAMPLED DATE		re received	
SW-12 (UNFILIT/DUP)	Aqueous		T. EBNER		10/18/95		10/18/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total	0.295	mg/L	1.0	0.10	200.7/6010	11/18/95	KW	1	
Arsenic, Total	0.007	mg/L	1.0	0.005	200.7/6010	11/09/95	KW	2	
Barium, Total	0.017	mg/L	1.0	0.005	200.7/6010	11/07/95	GΒ	2	
Calcium, Total	B6.60	mg/L	1.0	0.050	200.7/6010	11/09/95	KW	2,3	
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	4	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/07/95	Œ	2	
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN		
Iron, Total	5.65	mg/L	1.0	0.025	200.7/6010	11/18/95	KW	1	
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/09/95	KW	2	
Magnesium, Total	1.22	mg/L	1.0	0.050	200.7/6010	11/14/95	KW	2	
Manganese, Total	BO.488	mg/L	1.0	0.005	200.7/6010	11/07/95	Œ	2,5	
Potassium, Total	4	mg/L	1.0	3	200.7/6010	11/04/95	NH	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn/jbb(dw) LK15ICW2

⁽¹⁾ Sample Preparation on 11/15/95 by GFB using 3010

⁽²⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.18 mg/L.

⁽⁴⁾ Sample Preparation on 10/18/95 by GFB using 7195

⁽⁵⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of manganese in the method blank was 0.005 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number: WL-1628-20 Report Date: 12/06/95

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SAMPLE DESCRIPTION	1	ATRIX	SAMPLED BY	SAMPLED DATE RECEIVED			
SW-12 (UNFILT/DUP)		Aqueous	T. EBNER	10/18/9	5 10/18/95		
PARAMETER	RESULT	UNITS DF	*PQL METHOD	ANALYZED	BY NOTES		
Silicon, Total Sodium, Total		mg/L 1.0 mg/L 1.0	0.2 200.7/6010 1 200.7/6010		NH 1,2 NH 1		

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn/jbb(dw)
LJ23ICW3
CC: OLIN-TN/STEVE MORROW
SMITH/RICK SACKS
PTI/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.4 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-21 Report Date: 12/06/95

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SAMPLE DESCRIPTION	MATRIX			SAMPLED BY		SAMPLED DATE		RECEIVED	
SW-12 (UNFILIT/MS)	Aqueous		T. EBNER		10/18/95		10/18/95		
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total	2.32	mg/L	2.0	0.10	200.7/6010	11/30/95	EM	1	
Arsenic, Total	1.87	mg/L	2.0	0.50	200.7/6010	11/09/95	KW	2	
Barium, Total	1.71	mg/L	1.0	0.005	200.7/6010	11/07/95	GB3	2	
Calcium, Total	B8.01	mg/L	2.0	0.050	200.7/6010	11/09/95	KW	2,3	
Chromium, Hexavalent	1.81	mg/L	1.0	0.015	6010	11/14/95	KW	4	
Chromium, Total	0.199	mg/L	1.0	0.015	200.7/6010	11/07/95	Œ	2	
Chromium, Trivalent	Not Appl.	mg/L	1.0	0.015	Calculation	11/22/95	DN	5	
Iron, Total	6.73	mg/L	2.0	0.025	200.7/6010	11/30/95	EM	1	
Lead, Total	0.446	mg/L	2.0	0.005	200.7/6010	11/09/95	KW	2	
Magnesium, Total	5.62	mg/L	2.0	0.050	200.7/6010	11/09/95	KW	2	
Manganese, Total	B0.914	mg/L	1.0	0.005	200.7/6010	11/07/95	GВ	2,6	

- * PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
- (1) Sample Preparation on 11/22/95 by JAF using 3010
- (2) Sample Preparation on 10/23/95 by VM using 3010
- (3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.18 mg/L.
- (4) Sample Preparation on 10/18/95 by GFB using 7195
- (6) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of manganese in the method blank was 0.005 mg/L.
- (5) This is a calculation and is not applicable to a matrix spike.

12/06/95

LJO/ejnejn LK22ICW3





OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-21 Report Date: 12/06/95

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SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED D	ATE	RECEIVED
SW-12 (UNFILT/MS)		Aqueous		T. EB	NER	10/18/9	5	10/18/95
PARAMETER	RESULT	UNITS	DF	+PQL	METHOD	ANALYZED	BY	NOTES
Potassium, Total	28.	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Total	B3.9	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1,2
Sodium, Total	26.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW3

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.4 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-22 Report Date: 12/06/95

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SAMPLE DESCRIPTION	MATRIX			SAMPL	SAMPLED BY		ATE	TE RECEIVED	
SW-17 (UNFILT)	Aqueous			T. EB	NER	10/18/95		10/18/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total	0.78	mg/L	1.0	0.10	200.7/6010	11/18/95	KW	1	
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/09/95	KW	2	
Barium, Total	0.032	mg/L	1.0	0.005	200.7/6010	11/07/95	GB	2	
Calcium, Total	B89	mg/L	10	0.050	200.7/6010	11/09/95	KW	2,3	
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	4	
Chromium, Total	0.016	mg/L	1.0	0.015	200.7/6010	11/07/95	GB	2	
Chromium, Trivalent	0.016	mg/L	1.0	0.015	Calculation	11/22/95	DN		
Iron, Total	3.6	mg/L	1.0	0.025	200.7/6010	11/18/95	KW	1	
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/09/95	KW	2	
Magnesium, Total	5.3	mg/L	1.0	0.050	200.7/6010	11/09/95	KW	2	
Manganese, Total	B0.66	mg/L	1.0	0.005	200.7/6010	11/07/95	Œ	2,5	
Potassium, Total	4	mg/L	1.0	3	200.7/6010	11/04/95	NH	2	

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LK15ICW2

⁽¹⁾ Sample Preparation on 11/15/95 by GFB using 3010

⁽²⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽³⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.18 mg/L.

⁽⁴⁾ Sample Preparation on 10/18/95 by GFB using 7195

⁽⁵⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of manganese in the method blank was 0.005 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-22 Report Date: 12/06/95

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SAMPLE DESCRIPTION	MATRIX			SAMPL	ED BY	SAMPLED DATE RECEIVED		
SW-17 (UNFILT)		Aqueous	J	T. E8	NER	10/18/9	5	10/18/95
PARAMETER	RESOLT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Total Sodium, Total	B6 110,	mg/L mg/L	10 1.0		200.7/6010 200.7/6010	11/06/95 11/04/95		1,2

^{*} PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LJ23ICW3 CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PTI/CHRIS SELLSTONE

⁽¹⁾ Sample Preparation on 10/23/95 by VM using 3010

⁽²⁾ A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.4 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-23 Report Date: 12/06/95

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SAMPLE DESCRIPTION		MATRIX		SAMPL	ED BY	SAMPLED DATE RECEIVED			
SW FIELD REP (UNFILT)	Aqueous			T. EB	NER	10/18/95		10/18/95	
PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES	
Aluminum, Total	0.84	mg/L	1.0	0.10	200.7/6010	11/18/95	KW	1	
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/09/95	KW	2	
Barium, Total	0.044	mg/L	1.0	0.005	200.7/6010	11/07/95	GB	2	
Calcium, Total	B120	mg/L	1.0	0.050	200.7/6010	11/09/95	KW	2,3	
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	4	
Chromium, Total	0.023	mg/L	1.0	0.015	200.7/6010	11/07/95	Œ	2	
Chromium, Trivalent	0.023	mg/L	1.0	0.015	Calculation	11/22/95	DN		
Iron, Total	3.7	mg/L	1.0	0.025	200.7/6010	11/18/95	KW	1	
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/09/95	KW	2	
Magnesium, Total	7.3	mg/L	1.0	0.050	200.7/6010	11/09/95	KW	2	
Manganese, Total	B0.89	mg/L	1.0	0.005	200.7/6010	11/07/95	ŒB	2,5	
Potassium, Total	4	mg/L	1.0	3	200.7/6010	11/04/95	NH	2	

- * PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
- (1) Sample Preparation on 11/15/95 by GFB using 3010
- (2) Sample Preparation on 10/23/95 by VM using 3010
- (3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.18 mg/L.
- (4) Sample Preparation on 10/18/95 by GFB using 7195
- (5) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of manganese in the method blank was 0.005 mg/L.

12/06/95

LXO/ejnejn LXOSICW2

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PII/CHRIS SELLSTONE

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OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-23 Report Date: 12/06/95

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| SAMPLE DESCRIPTION              | М        | YTRIX               | SAMPLED BY                     | SAMPLED DATE RECEIV |          |  |
|---------------------------------|----------|---------------------|--------------------------------|---------------------|----------|--|
| SW FIELD REP (UNFILIT)          | Ac       | queous              | T. EBNER                       | 10/18/95            | 10/18/95 |  |
| PARAMETER                       | RESULT ( | NITS DF             | *PQL METHOD                    | ANALYZED BY         | NOTES    |  |
| Silicon, Total<br>Sodium, Total |          | ng/L 10<br>ng/L 1.0 | 0.2 200.7/6010<br>1 200.7/6010 |                     | •        |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn
LJ23ICW3
CC: OLIN-TN/STEVE MORROW
SMITH/RICK SACKS
PTI/CHRIS SELLSTONE

<sup>(1)</sup> Sample Preparation on 10/23/95 by VM using 3010

<sup>(2)</sup> A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.4 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-24 Report Date: 12/06/95

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| SAMPLE DESCRIPTION   |        | MATRIX  |     |          | ED BY       | SAMPLED DATE RECEIV |    |          |  |
|----------------------|--------|---------|-----|----------|-------------|---------------------|----|----------|--|
| SW-16 (UNFILT)       |        | Aqueous |     | T. EBNER |             | 10/18/95            |    | 10/18/95 |  |
| PARAMETER            | RESULT | UNITS   | DF  | *PQL     | METHOD      | ANALYZED            | BY | NOTES    |  |
| Aluminum, Total      | 0.13   | mg/L    | 1.0 | 0.10     | 200.7/6010  | 11/18/95            | KW | 1        |  |
| Arsenic, Total       | <0.005 | mg/L    | 1.0 | 0.005    | 200.7/6010  | 11/09/95            | KW | 2        |  |
| Barium, Total        | 0.019  | mg/L    | 1.0 | 0.005    | 200.7/6010  | 11/07/95            | GB | 2        |  |
| Calcium, Total       | B280   | mg/L    | 1.0 | 0.050    | 200.7/6010  | 11/09/95            | KW | 2,3      |  |
| Chromium, Hexavalent | <0.015 | mg/L    | 1.0 | 0.015    | 6010        | 11/14/95            | KW | 4        |  |
| Chromium, Total      | <0.015 | mg/L    | 1.0 | 0.015    | 200.7/6010  | 11/07/95            | Œ  | 2        |  |
| Chromium, Trivalent  | <0.015 | mg/L    | 1.0 | 0.015    | Calculation | 11/22/95            | DN |          |  |
| Iron, Total          | 0.53   | mg/L    | 1.0 | 0.025    | 200.7/6010  | 11/18/95            | KW | 1        |  |
| Lead, Total          | <0.005 | mg/L    | 1.0 | 0.005    | 200.7/6010  | 11/09/95            | KW | 2        |  |
| Magnesium, Total     | 5.9    | mg/L    | 1.0 | 0.050    | 200.7/6010  | 11/09/95            | KW | 2        |  |
| Manganese, Total     | BO.46  | mg/L    | 1.0 | 0.005    | 200.7/6010  | 11/07/95            | GB | 2,5      |  |
| Potassium, Total     | 4      | mg/L    | 1.0 | 3        | 200.7/6010  | 11/04/95            | NH | 2        |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LK15ICW2

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PIT/CHRIS SELLSTONE

11.4

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<sup>(1)</sup> Sample Preparation on 11/15/95 by GFB using 3010

<sup>(2)</sup> Sample Preparation on 10/23/95 by VM using 3010

<sup>(3)</sup> A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.18 mg/L.

<sup>(4)</sup> Sample Preparation on 10/18/95 by GFB using 7195

<sup>(5)</sup> A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of manganese in the method blank was 0.005 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-24 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

## REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION              | MATRIX      |         |             | SAMPLED BY |            | SAMPLED D | RECEIVED |          |  |
|---------------------------------|-------------|---------|-------------|------------|------------|-----------|----------|----------|--|
| SW-16 (UNFILIT)                 |             | Aqueous | · · · · · · | T. E       | INER       | 10/18/9   | 5        | 10/18/95 |  |
| PARAMETER                       | RESULT      | UNITS   | DF          | *PQL       | METHOD     | ANALYZED  | BY       | NOTES    |  |
| Silicon, Total<br>Sodium, Total | B0.5<br>90. | mg/L    | 1.0         |            | 200.7/6010 | • •       |          | •        |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

WO/ejnejn LJ23ICW3

<sup>(1)</sup> Sample Preparation on 10/23/95 by VM using 3010

<sup>(2)</sup> A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.4 mg/L.



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-25 Report Date: 12/06/95

PO No. : SE-

: SE-CH-827-VAR-C

#### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION   |        | MATRIX SAMPLED BY |     |       |             | SAMPLED DATE RECEIVED |    |          |  |
|----------------------|--------|-------------------|-----|-------|-------------|-----------------------|----|----------|--|
| GW-500 (UNFILIT)     |        | Aqueous T.        |     | T. EB | NER         | 10/18/95              |    | 10/18/95 |  |
| PARAMETER            | RESULT | UNITS             | DF  | *PQL  | METHOD      | ANALYZED              | BY | NOTES    |  |
| Aluminum, Total      | <0.10  | mg/L              | 1.0 | 0.10  | 200.7/6010  | 11/18/95              | KW | 1        |  |
| Arsenic, Total       | <0.005 | mg/L              | 1.0 | 0.005 | 200.7/6010  | 11/09/95              | KW | 2        |  |
| Barium, Total        | <0.005 | mg/L              | 1.0 | 0.005 | 200.7/6010  | 11/07/95              | Œ  | 2        |  |
| Calcium, Total       | <0.050 | mg/L              | 1.0 | 0.050 | 200.7/6010  | 11/09/95              | KW | 2        |  |
| Chromium, Hexavalent | <0.015 | mg/L              | 1.0 | 0.015 | 6010        | 11/15/95              | KW | 3        |  |
| Chromium, Total      | <0.015 | mg/L              | 1.0 | 0.015 | 200.7/6010  | 11/07/95              | ŒB | 2        |  |
| Chromium, Trivalent  | <0.015 | mg/L              | 1.0 | 0.015 | Calculation | 11/22/95              | DN |          |  |
| Iron, Total          | <0.025 | mg/L              | 1.0 | 0.025 | 200.7/6010  | 11/18/95              | KW | 1        |  |
| Lead, Total          | <0.005 | mg/L              | 1.0 | 0.005 | 200.7/6010  | 11/09/95              | KW | 2        |  |
| Magnesium, Total     | <0.050 | mg/L              | 1.0 | 0.050 | 200.7/6010  | 11/09/95              | KW | 2        |  |
| Manganese, Total     | <0.005 | mg/L              | 1.0 | 0.005 | 200.7/6010  | 11/07/95              | GB | 2        |  |
| Potassium, Total     | 3      | mg/L              | 1.0 | 3     | 200.7/6010  | 11/04/95              | NH | 2        |  |
| Silicon, Total       | <0.2   | mg/L              | 1.0 | 0.2   | 200.7/6010  | 11/06/95              | NH | 2        |  |
| Sodium, Total        | <1     | mg/L              | 1.0 | 1     | 200.7/6010  | 11/04/95              | NH | 2        |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnejn LK15ICW2

CC: OLIN-TN/STEVE MORROW SMTTH/RICK SACKS PTI/CHRIS SELLSTONE

<sup>(1)</sup> Sample Preparation on 11/15/95 by GFB using 3010

<sup>(2)</sup> Sample Preparation on 10/23/95 by VM using 3010

<sup>(3)</sup> Sample Preparation on 10/18/95 by GFB using 7195



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Iab Number : WL-1628-26 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION   |                  | MATRIX SAMPLED BY |          |       | SAMPLED D   | RECEIVED |    |       |
|----------------------|------------------|-------------------|----------|-------|-------------|----------|----|-------|
| GN-77S (UNFILIT)     | Aqueous T. EBNER |                   | 10/18/95 |       | 10/18/95    |          |    |       |
| PARAMETER            | RESULT           | UNITS             | DF       | *PQL  | METHOD      | ANALYZED | BY | NOTES |
| Chromium, Hexavalent | <0.015           | mg/L              | 1.0      | 0.015 | 6010        | 11/15/95 | KW | 1     |
| Chromium, Total      | 0.037            | mg/L              | 1.0      | 0.015 | 200.7/6010  | 11/07/95 | Œ  | 2     |
| Chromium, Trivalent  | 0.037            | mg/L              | 1.0      | 0.015 | Calculation | 11/22/95 | DN |       |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PTI/CHRIS SELLSTONE

<sup>(1)</sup> Sample Preparation on 10/18/95 by GFB using 7195

<sup>(2)</sup> Sample Preparation on 10/23/95 by VM using 3010



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-27 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

#### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION   |        | MATRIX SAMPLED BY |     |       | ED BY       | SAMPLED DATE RECEIVED |          |       |  |
|----------------------|--------|-------------------|-----|-------|-------------|-----------------------|----------|-------|--|
| GW-42S (UNFILIT)     |        | Aqueous T. EBNER  |     |       | 10/18/95    |                       | 10/18/95 |       |  |
| PARAMETER            | RESULT | UNITS             | DF  | *PQL  | METHOD      | ANALYZED              | BY       | NOTES |  |
| Chromium, Hexavalent | <0.015 | mg/L              | 1.0 | 0.015 | 6010        | 11/15/95              | KW       | 1     |  |
| Chromium, Total      | <0.015 | mg/L              | 1.0 | 0.015 | 200.7/6010  | 11/07/95              | Œ        | 2     |  |
| Chromium, Trivalent  | <0.015 | mg/L              | 1.0 | 0.015 | Calculation | 11/22/95              | DN       |       |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb (dw)

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PTI/CHRIS SELLSTONE

<sup>(1)</sup> Sample Preparation on 10/18/95 by GFB using 7195

<sup>(2)</sup> Sample Preparation on 10/23/95 by VM using 3010



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-28 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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| SAMPLE DESCRIPTION                                             | ]                          | MATRIX SAMPLED BY |                   |      | SAMPLED D | RECEIVED                         |    |       |
|----------------------------------------------------------------|----------------------------|-------------------|-------------------|------|-----------|----------------------------------|----|-------|
| W-42S (UNFILT/DUP) Aqueous T. EBNER                            |                            | NER               | 10/18/95 10/1     |      | 10/18/95  |                                  |    |       |
| PARAMETER                                                      | RESULT                     | UNITS             | DF                | *PQL | METHOD    | ANALYZED                         | BY | NOTES |
| Chromium, Hexavalent<br>Chromium, Total<br>Chromium, Trivalent | <0.015<br><0.015<br><0.015 | mg/L              | 1.0<br>1.0<br>1.0 |      |           | 11/15/95<br>11/07/95<br>11/22/95 | Œ₿ | 1 2   |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

CC: OLIN-TN/STEVE MORROW SMTTH/RICK SACKS PTI/CHRIS SELLSTONE

<sup>(1)</sup> Sample Preparation on 10/18/95 by GFB using 7195

<sup>(2)</sup> Sample Preparation on 10/23/95 by VM using 3010



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-29
Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

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| SAMPLE DESCRIPTION                                             | <u> </u> | ATRIX     |                   | SAMPL | ED BY     | SAMPLED D                        | RECEIVED       |             |
|----------------------------------------------------------------|----------|-----------|-------------------|-------|-----------|----------------------------------|----------------|-------------|
| GW-42S (UNFILT/MS)                                             | A        | Aqueous T |                   |       | T. EBNER  |                                  | 10/18/95       |             |
| PARAMETER                                                      | RESULT   | UNITS     | DF                | *PQL  | METHOD    | ANALYZED                         | BY             | NOTES       |
| Chromium, Hexavalent<br>Chromium, Total<br>Chromium, Trivalent |          | mg/L      | 1.0<br>1.0<br>1.0 |       | · · · · - | 11/15/95<br>11/07/95<br>11/22/95 | KW<br>GB<br>DN | 1<br>2<br>3 |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

- (1) Sample Preparation on 10/18/95 by GFB using 7195
- (2) Sample Preparation on 10/23/95 by VM using 3010
- (3) This is a calculation and is not applicable to a matrix spike.

12/06/95

LJO/ejnejn

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PII/CHRIS SELLSTONE





OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-30 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

#### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION                                             |                          | MATRIX  |                   | SAMPLI | ED BY    | SAMPLED D                        | RECEIVED |          |  |
|----------------------------------------------------------------|--------------------------|---------|-------------------|--------|----------|----------------------------------|----------|----------|--|
| GW-76S (UNFILT)                                                |                          | Aqueous |                   |        | T. EBNER |                                  | 5        | 10/18/95 |  |
| PARAMETER                                                      | RESULIT                  | UNITS   | DF                | *PQL   | METHOD   | ANALYZED                         | BY       | NOTES    |  |
| Chromium, Hexavalent<br>Chromium, Total<br>Chromium, Trivalent | <0.015<br>0.020<br>0.020 | mg/L    | 1.0<br>1.0<br>1.0 | =      | -        | 11/15/95<br>11/07/95<br>11/22/95 | GB       | 1<br>2   |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

CC: CLIN-TN/STEVE MORROW SMITH/RICK SACKS PII/CHRIS SELLSTONE

<sup>(1)</sup> Sample Preparation on 10/18/95 by GFB using 7195

<sup>(2)</sup> Sample Preparation on 10/23/95 by VM using 3010



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-31 Report Date: 12/06/95

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| SAMPLE DESCRIPTION                                             |                          | MATRIX SAMPLED BY Aqueous T. ERNER |                   |      | ED BY                             | SAMPLED DATE RECEIVED |    |          |  |
|----------------------------------------------------------------|--------------------------|------------------------------------|-------------------|------|-----------------------------------|-----------------------|----|----------|--|
| GW FIELD REP (UNFILIT)                                         |                          |                                    |                   |      | T. EBNER                          |                       | 95 | 10/18/95 |  |
| PARAMETER                                                      | RESULT                   | UNITS                              | DF                | *PQL | METHOD                            | ANALYZED              | BY | notes    |  |
| Chromium, Hexavalent<br>Chromium, Total<br>Chromium, Trivalent | <0.015<br>0.025<br>0.025 | mg/L<br>mg/L<br>mg/L               | 1.0<br>1.0<br>1.0 |      | 6010<br>200.7/6010<br>Calculation |                       | Œ  | 1 2      |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

CC: CLIN-TN/STEVE MORROW SMITH/RICK SACKS PTI/CHRIS SELLSTONE

<sup>(1)</sup> Sample Preparation on 10/18/95 by GFB using 7195

<sup>(2)</sup> Sample Preparation on 10/23/95 by VM using 3010



CILIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-32 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

#### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION   |        | MATRIX  | TRIX SAMPLED BY |       |             | SAMPLED DATE RECEIVED |    |          |  |
|----------------------|--------|---------|-----------------|-------|-------------|-----------------------|----|----------|--|
| GW-78S (UNFILIT)     |        | Aqueous |                 |       | T. EBNER    |                       | 5  | 10/18/95 |  |
| PARAMETER            | RESULT | UNITS   | DF              | *PQL  | METHOD      | ANALYZED              | BY | NOTES    |  |
| Chromium, Hexavalent | 0.035  | mg/L    | 1.0             | 0.015 | 6010        | 11/15/95              | KW | 1        |  |
| Chromium, Total      | 0.25   | mg/L    | 1.0             | 0.015 | 200.7/6010  | 11/07/95              | Œ  | 2        |  |
| Chromium, Trivalent  | 0.22   | mg/L    | 1.0             | 0.015 | Calculation | 11/22/95              | DN |          |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PII/CHRIS SELLSTONE

<sup>(1)</sup> Sample Preparation on 10/18/95 by GFB using 7195

<sup>(2)</sup> Sample Preparation on 10/23/95 by VM using 3010



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-33 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION   |        | MATRIX           |     | SAMPL | ED BY       | SAMPLED DATE RECEIVED |    |          |
|----------------------|--------|------------------|-----|-------|-------------|-----------------------|----|----------|
| GW-79S (UNFILT)      |        | Aqueous T. EBNER |     |       |             | 10/18/95              |    | 10/18/95 |
| PARAMETER            | RESULT | UNITS            | DF  | *PQL  | METHOD      | ANALYZED              | BY | NOTES    |
| Chromium, Hexavalent | <0.015 | mg/L             | 1.0 | 0.015 | 6010        | 11/15/95              | KW | 1        |
| Chromium, Total      | 0.019  | mg/L             | 1.0 | 0.015 | 200.7/6010  | 11/07/95              | GB | 2        |
| Chromium, Trivalent  | 0.019  | mg/L             | 1.0 | 0.015 | Calculation | 11/22/95              | DN |          |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PIT/CHRIS SELLSTONE

<sup>(1)</sup> Sample Preparation on 10/18/95 by GFB using 7195

<sup>(2)</sup> Sample Preparation on 10/23/95 by VM using 3010



OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887 Lab Number : WL-1628-34 Report Date: 12/06/95

PO No. : SE-CH-827-VAR-C

### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION   |        | MATRIX SAMPLED BY Aqueous T. EBNER |     |       | ED BY       | SAMPLED DATE RECEIVED |    |          |  |
|----------------------|--------|------------------------------------|-----|-------|-------------|-----------------------|----|----------|--|
| GW-50S (UNFILIT)     |        |                                    |     |       | T. EBNER    |                       | 95 | 10/18/95 |  |
| PARAMETER            | RESULT | UNITS                              | DF  | *PQL  | METHOD      | ANALYZED              | BY | NOTES    |  |
| Chromium, Hexavalent | <0.015 | mg/L                               | 1.0 | 0.015 | 6010        | 11/15/95              | KW | 1        |  |
| Chromium, Total      | <0.015 | mg/L                               | 1.0 | 0.015 | 200.7/6010  | 11/09/95              | ŒB | 2        |  |
| Chromium, Trivalent  | <0.015 | mg/L                               | 1.0 | 0.015 | Calculation | 11/22/95              | DN |          |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

12/06/95

LJO/ejnjbb(dw)

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PII/CHRIS SELLSTONE

<sup>(1)</sup> Sample Preparation on 10/18/95 by GFB using 7195

<sup>(2)</sup> Sample Preparation on 10/23/95 by VM using 3010

Field Identification: SW-14 (FILT)

Matrix: WATER

|                                        |        | Reporting |           | Date     | QC    |             |   |  |
|----------------------------------------|--------|-----------|-----------|----------|-------|-------------|---|--|
| Parameter                              | Result | Limit     | Lab No.   | Analyzed | Batch | Method/Ref. | 0 |  |
| Sulfide, dissolved (mg/L)              | BOL    | 1         | 45718-001 | 10/20/95 | 313   | 376.1/1     |   |  |
| Chloride, dissolved (mg/L)             | 72     | 1         | 45718-018 | 10/23/95 | 767   | 325.1/1     |   |  |
| Sulfate, dissolved (mg/L)              | 28     | 10        | 45718-018 | 10/20/95 | 669A  | 300.0/1     |   |  |
| Bromide, dissolved (mg/L)              | BDL    | 1         | 45718-018 | 10/24/95 | 670A  | 300.0/1     |   |  |
| Ortho Phosphate, dissolved (mg/L as P) | BDL    | 0.02      | 45718-018 | 10/19/95 | 204   | 365.2/1     |   |  |
| Ammonia-N, dissolved (mg/L as N)       | 0.08   | 0.05      | 45718-033 | 10/21/95 | 588   | 350.2/1     |   |  |

Field Identification: SW-12 (FILT)

Matrix: WATER

|                                        |        | Reporting |           | Date     | QC    |             |
|----------------------------------------|--------|-----------|-----------|----------|-------|-------------|
| Parameter                              | Result | Limit     | Lab No.   | Analyzed | Batch | Method/Ref. |
| Sulfide, dissolved (mg/L)              | BDL    | 1         | 45718-002 | 10/20/95 | 313   | 376.1/1     |
| Chloride, dissolved (mg/L)             | 37     | 1         | 45718-019 | 10/23/95 | 767   | 325.1/1     |
| Sulfate, dissolved (mg/L)              | 25     | 10        | 45718-019 | 10/20/95 | 669A  | 300.0/1     |
| Bromide, dissolved (mg/L)              | BDL    | 1         | 45718-019 | 10/24/95 | 670A  | 300.0/1     |
| Ortho Phosphate, dissolved (mg/L as P) | 8DL    | 0.02      | 45718-019 | 10/19/95 | 204   | 365.2/1     |
| Ammonia-N, dissolved (mg/L as N)       | BDL    | 0.05      | 45718-034 | 10/21/95 | 588   | 350.2/1     |

Field Identification: SW-12 (FILT/DUP)

Matrix: WATER

|                                        | Reporting |       |           | Date     | oc .  |             |
|----------------------------------------|-----------|-------|-----------|----------|-------|-------------|
| Parameter                              | Result    | Limit | Lab No.   | Analyzed | Batch | Method/Ref. |
| Sulfide, dissolved (mg/L)              | BDL       | 1     | 45718-003 | 10/20/95 | 313   | 376.1/1     |
| Chloride, dissolved (mg/L)             | 37        | 1     | 45718-020 | 10/23/95 | 767   | 325.1/1     |
| Sulfate, dissolved (mg/L)              | 26        | 10    | 45718-020 | 10/20/95 | 669A  | 300.0/1     |
| Bromide, dissolved (mg/L)              | BOL       | 1     | 45718-020 | 10/24/95 | 670A  | 300.0/1     |
| Ortho Phosphate, dissolved (mg/L as P) | BOL       | 0.02  | 45718-020 | 10/19/95 | 204   | 365.2/1     |
| Ammonia-N, dissolved (mg/L as N)       | 0.05      | 0.05  | 45718-035 | 10/21/95 | 588   | 350.2/1     |

Field Identification: SW-12 (FILT/MS)

|                                        | Reporting |       |           | Date     | QC    |             |
|----------------------------------------|-----------|-------|-----------|----------|-------|-------------|
| Parameter                              | Result    | Limit | Lab No.   | Analyzed | Batch | Method/Ref. |
| Sulfide, dissolved (mg/L)              | 34        | 1     | 45718-004 | 10/20/95 | 313   | 376.1/1     |
| Chloride, dissolved (mg/L)             | 88        | 1     | 45718-021 | 10/23/95 | 767   | 325.1/1     |
| Sulfate, dissolved (mg/L)              | 140       | 10    | 45718-021 | 10/20/95 | 669A  | 300.0/1     |
| Bromide, dissolved (mg/L)              | 11        | 1     | 45718-021 | 10/24/95 | 670A  | 300.0/1     |
| Ortho Phosphate, dissolved (mg/L as P) | 0.48      | 0.02  | 45718-021 | 10/19/95 | 204   | 365.2/1     |
| Ammonia-N, dissolved (mg/L as N)       | 0.99      | 0.05  | 45718-036 | 10/21/95 | 588   | 350.2/1     |



### Field Identification: SW-17 (FILT)

### Matrix: WATER

|                                        |         | Reporting |           |          | QC    |               |  |
|----------------------------------------|---------|-----------|-----------|----------|-------|---------------|--|
| Parameter                              | Resul t | Limit     | Lab No.   | Analyzed | Batch | Method/Ref. 🗸 |  |
| Sulfide, dissolved (mg/L)              | BDL     | 1         | 45718-005 | 10/20/95 | 313   | 376.1/1       |  |
| Chloride, dissolved (mg/L)             | 160     | 1         | 45718-022 | 10/23/95 | 767   | 325.1/1       |  |
| Sulfate, dissolved (mg/L)              | 340     | 10        | 45718-022 | 10/20/95 | 669A  | 300.0/1       |  |
| Bromide, dissolved (mg/L)              | BDL     | 1         | 45718-022 | 10/24/95 | 670A  | 300.0/1       |  |
| Ortho Phosphate, dissolved (mg/L as P) | BOL     | 0.02      | 45718-022 | 10/19/95 | 204   | 365.2/1       |  |
| Ammonia-N, dissolved (mg/L as N)       | 170     | 5         | 45718-037 | 10/21/95 | 588   | 350.2/1       |  |

Field Identification: SW FIELD REP (FILT)

Matrix: WATER

|                                        | Reporting |       |           | Date     | QC    |             |  |
|----------------------------------------|-----------|-------|-----------|----------|-------|-------------|--|
| Parameter                              | Result    | Limit | Lab No.   | Analyzed | Batch | Method/Ref. |  |
| Sulfide, dissolved (mg/L)              | BDL       | 1     | 45718-006 | 10/20/95 | 313   | 376.1/1     |  |
| Chloride, dissolved (mg/L)             | 160       | 1     | 45718-023 | 10/23/95 | 767   | 325.1/1     |  |
| Sulfate, dissolved (mg/L)              | 510       | 10    | 45718-023 | 10/20/95 | 669A  | 300.0/1     |  |
| Bromide, dissolved (mg/L)              | BDL       | 1     | 45718-023 | 10/24/95 | 670A  | 300.0/1     |  |
| Ortho Phosphate, dissolved (mg/L as P) | BDL       | 0.02  | 45718-023 | 10/19/95 | 204   | 365.2/1     |  |
| Ammonia-N, dissolved (mg/L as N)       | 160       | 5     | 45718-038 | 10/21/95 | 588   | 350.2/1     |  |

Field Identification: SW-16 (FILT)

Matrix: WATER

|                                        | Reporting |       |           | Date     | QC    |             |  |
|----------------------------------------|-----------|-------|-----------|----------|-------|-------------|--|
| Parameter                              | Result    | Limit | Lab No.   | Analyzed | Batch | Hethod/Ref. |  |
| Sulfide, dissolved (mg/L)              | BDL       | 1     | 45718-007 | 10/20/95 | 313   | 376.1/1     |  |
| Chloride, dissolved (mg/L)             | 78        | 1     | 45718-024 | 10/23/95 | 767   | 325.1/1     |  |
| Sulfate, dissolved (mg/L)              | 1000      | 10    | 45718-024 | 10/20/95 | 669A  | 300.0/1     |  |
| Bromide, dissolved (mg/L)              | BDL       | 1     | 45718-024 | 10/24/95 | 670A  | 300.0/1     |  |
| Ortho Phosphate, dissolved (mg/L as P) | BDL       | 0.02  | 45718-024 | 10/19/95 | 204   | 365.2/1     |  |
| Ammonia-N, dissolved (mg/L as N)       | 97        | 5     | 45718-039 | 10/21/95 | 588   | 350.2/1     |  |

Field Identification: GW-500 (FILT)

|                                        | Reporting |       |           | Date     | QC    |             |  |
|----------------------------------------|-----------|-------|-----------|----------|-------|-------------|--|
| Parameter                              | Result    | Limit | Lab No.   | Analyzed | Batch | Method/Ref. |  |
| Sulfide, dissolved (mg/L)              | BDL       | 1     | 45718-008 | 10/20/95 | 313   | 376.1/1     |  |
| Chloride, dissolved (mg/L)             | BDL       | 1     | 45718-025 | 10/23/95 | 767   | 325.1/1     |  |
| Sulfate, dissolved (mg/L)              | 2         | 1     | 45718-025 | 10/24/95 | 670A  | 300.0/1     |  |
| Bromide, dissolved (mg/L)              | BDL       | 1     | 45718-025 | 10/24/95 | 670A  | 300.0/1     |  |
| Ortho Phosphate, dissolved (mg/L as P) | BDL       | 0.02  | 45718-025 | 10/19/95 | 204   | 365.2/1     |  |
| Ammonia-N, dissolved (mg/L as N)       | BDL       | 0.05  | 45718-040 | 10/21/95 | 588   | 350.2/1     |  |



Field Identification: GW-77S (FILT)

Matrix: WATER

|                                        | Reporting |       |           | Date     | QC    |             |  |
|----------------------------------------|-----------|-------|-----------|----------|-------|-------------|--|
| Parameter                              | Result    | Limit | Lab No.   | Analyzed | Batch | Method/Ref. |  |
| Sulfide, dissolved (mg/L)              | 6         | 1     | 45718-009 | 10/20/95 | 313   | 376.1/1     |  |
| Chloride, dissolved (mg/L)             | 50        | 1     | 45718-026 | 10/23/95 | 767   | 325.1/1     |  |
| Sulfate, dissolved (mg/L)              | 35        | 10    | 45718-026 | 10/20/95 | 669A  | 300.0/1     |  |
| Bromide, dissolved (mg/L)              | BDL       | 1     | 45718-026 | 10/24/95 | 670A  | 300.0/1     |  |
| Ortho Phosphate, dissolved (mg/L as P) | BDL       | 0.02  | 45718-026 | 10/19/95 | 204   | 365.2/1     |  |
| Ammonia-N, dissolved (mg/L as N)       | 0.31      | 0.05  | 45718-041 | 10/21/95 | 588   | 350.2/1     |  |

Field Identification: GW-42S (FILT)

Matrix: WATER

|                                        | Reporting |       |           | Date     | QC    |             |  |
|----------------------------------------|-----------|-------|-----------|----------|-------|-------------|--|
| Parameter                              | Result    | Limit | Lab No.   | Analyzed | Batch | Method/Ref. |  |
| Sulfide, dissolved (mg/L)              | <br>2     | 1     | 45718-010 | 10/20/95 | 313   | 376.1/1     |  |
| Chloride, dissolved (mg/L)             | 89        | 1     | 45718-027 | 10/23/95 | 767   | 325.1/1     |  |
| Sulfate, dissolved (mg/L)              | 6         | 1     | 45718-027 | 10/24/95 | 670A  | 300.0/1     |  |
| Bromide, dissolved (mg/L)              | BDL       | 1     | 45718-027 | 10/24/95 | 670A  | 300.0/1     |  |
| Ortho Phosphate, dissolved (mg/L as P) | BDL       | 0.02  | 45718-027 | 10/19/95 | 204   | 365.2/1     |  |
| Ammonia-N, dissolved (mg/L as N)       | 5.0       | 0.05  | 45718-042 | 10/21/95 | 588   | 350.2/1     |  |

Field Identification: GW-42S (FILT/DUP)

Matrix: WATER

|                                        | Reporting |       |           | Date     | QC    |             |
|----------------------------------------|-----------|-------|-----------|----------|-------|-------------|
| Parameter                              | Resul t   | Limit | Lab No.   | Analyzed | Batch | Method/Ref. |
| Sulfide, dissolved (mg/L)              | 2         | 1     | 45718-011 | 10/20/95 | 313   | 376.1/1     |
| Ammonia-N, dissolved (mg/L as N)       | 4.6       | 0.05  | 45718-043 | 10/21/95 | 588   | 350.2/1     |
| Chloride, dissolved (mg/L)             | 89        | 1     | 45718-045 | 10/23/95 | 767   | 325.1/1     |
| Sulfate, dissolved (mg/L)              | 6         | 1     | 45718-045 | 10/24/95 | 670A  | 300.0/1     |
| Bromide, dissolved (mg/L)              | BDL       | 1     | 45718-045 | 10/24/95 | 670A  | 300.0/1     |
| Ortho Phosphate, dissolved (mg/L as P) | BDL       | 0.02  | 45718-045 | 10/19/95 | 204   | 365.2/1     |

Field Identification: GW-42S (FILT/MS)

|                                        |        | Reporting |           |          | QC    |             |  |
|----------------------------------------|--------|-----------|-----------|----------|-------|-------------|--|
| Parameter                              | Result | Limit     | Lab No.   | Analyzed | Batch | Method/Ref. |  |
| Sulfide, dissolved (mg/L)              | 35     | 1         | 45718-012 | 10/20/95 | 313   | 376.1/1     |  |
| Ammonia-N, dissolved (mg/L as N)       | 6.1    | 0.05      | 45718-044 | 10/21/95 | 588   | 350.2/1     |  |
| Chloride, dissolved (mg/L)             | 130    | 1         | 45718-046 | 10/23/95 | 767   | 325.1/1     |  |
| Sulfate, dissolved (mg/L)              | 15     | 1         | 45718-046 | 10/24/95 | 670A  | 300.0/1     |  |
| Bromide, dissolved (mg/L)              | 11     | 1         | 45718-046 | 10/24/95 | 670A  | 300.0/1     |  |
| Ortho Phosphate, dissolved (mg/L as P) | 0.48   | 0.02      | 45718-046 | 10/19/95 | 204   | 365.2/1     |  |



Field Identification: GW-76S (FILT)

Matrix: WATER

|                                        | Reporting |       |           | Date     | QC    |             |
|----------------------------------------|-----------|-------|-----------|----------|-------|-------------|
| Parameter                              | Result    | Limit | Lab No.   | Analyzed | Batch | Method/Ref. |
| Sulfide, dissolved (mg/L)              | <br>1     | 1     | 45718-013 | 10/20/95 | 313   | 376.1/1     |
| Chloride, dissolved (mg/L)             | 34        | 1     | 45718-028 | 10/23/95 | 767   | 325.1/1     |
| Sulfate, dissolved (mg/L)              | 330       | 10    | 45718-028 | 10/20/95 | 669A  | 300.0/1     |
| Bromide, dissolved (mg/L)              | BOL       | 1     | 45718-028 | 10/24/95 | 670A  | 300.0/1     |
| Ortho Phosphate, dissolved (mg/L as P) | BDL       | 0.02  | 45718-028 | 10/19/95 | 204   | 365.2/1     |
| Ammonia-N, dissolved (mg/L as N)       | 90        | 5     | 45718-047 | 10/21/95 | 588   | 350.2/1     |

Field Identification: GW FIELD REP (FILT)

Matrix: WATER

|                                        | Reporting |       |           | Date     | QC    |             |  |
|----------------------------------------|-----------|-------|-----------|----------|-------|-------------|--|
| Parameter                              | Result    | Limit | Lab No.   | Analyzed | Batch | Method/Ref. |  |
| Sulfide, dissolved (mg/L)              | 10        | 1     | 45718-014 | 10/20/95 | 313   | 376.1/1     |  |
| Chloride, dissolved (mg/L)             | 34        | 1     | 45718-029 | 10/23/95 | 767   | 325.1/1     |  |
| Sulfate, dissolved (mg/L)              | 350       | 10    | 45718-029 | 10/20/95 | 669A  | 300.0/1     |  |
| Bromide, dissolved (mg/L)              | BDL       | 1     | 45718-029 | 10/24/95 | 670A  | 300.0/1     |  |
| Ortho Phosphate, dissolved (mg/L as P) | BDL       | 0.02  | 45718-029 | 10/19/95 | 204   | 365.2/1     |  |
| Ammonia-N, dissolved (mg/L as N)       | 92        | 5     | 45718-048 | 10/21/95 | 588   | 350.2/1     |  |

Field Identification: GW-78S (FILT)

Matrix: WATER

| Parameter  Sulfide, dissolved (mg/L) Chloride, dissolved (mg/L) Sulfate, dissolved (mg/L) | Reporting |       |           | Date     | QC    |             |
|-------------------------------------------------------------------------------------------|-----------|-------|-----------|----------|-------|-------------|
| Parameter                                                                                 | Result    | Limit | Lab No.   | Analyzed | Batch | Method/Ref. |
| Sulfide, dissolved (mg/L)                                                                 | 2         | 1     | 45718-015 | 10/20/95 | 313   | 376.1/1     |
| Chloride, dissolved (mg/L)                                                                | 83        | 1     | 45718-030 | 10/23/95 | 767   | 325.1/1     |
| Sulfate, dissolved (mg/L)                                                                 | 610       | 10    | 45718-030 | 10/20/95 | 669A  | 300.0/1     |
| Bromide, dissolved (mg/L)                                                                 | BDL       | 1     | 45718-030 | 10/24/95 | 670A  | 300.0/1     |
| Ortho Phosphate, dissolved (mg/L as P)                                                    | BDL       | 0.02  | 45718-030 | 10/19/95 | 204   | 365.2/1     |
| Ammonia-N, dissolved (mg/L as N)                                                          | 80        | 5     | 45718-049 | 10/21/95 | 588   | 350.2/1     |

Field Identification: GW-79S (FILT)

|                                        |        | Reporting |           | Date     | QC             |             |
|----------------------------------------|--------|-----------|-----------|----------|----------------|-------------|
| Parameter                              | Result | Limit     | Lab No.   | Analyzed | Analyzed Batch | Method/Ref. |
| Sulfide, dissolved (mg/L)              | 1      | 1         | 45718-016 | 10/20/95 | 313            | 376.1/1     |
| Chloride, dissolved (mg/L)             | 230    | 1         | 45718-031 | 10/23/95 | 767            | 325.1/1     |
| Sulfate, dissolved (mg/L)              | 2000   | 50        | 45718-031 | 10/24/95 | 670A           | 300.0/1     |
| Bromide, dissolved (mg/L)              | BDL    | 1         | 45718-031 | 10/24/95 | 670A           | 300.0/1     |
| Ortho Phosphate, dissolved (mg/L as P) | BDL    | 0.02      | 45718-031 | 10/19/95 | 204            | 365.2/1     |
| Ammonia-N, dissolved (mg/L as N)       | 380    | 5         | 45718-050 | 10/21/95 | 588            | 350.2/1     |



Field Identification: GW-50S (FILT)

Matrix: WATER

| ulfide, dissolved (mg/L) hloride, dissolved (mg/L) ulfate, dissolved (mg/L) romide, dissolved (mg/L) |        | Reporting |           | Date     | QC    |             |
|------------------------------------------------------------------------------------------------------|--------|-----------|-----------|----------|-------|-------------|
| Parameter                                                                                            | Result | Limit     | Lab No.   | Analyzed | Batch | Method/Ref. |
| Sulfide, dissolved (mg/L)                                                                            | BDL    | 1         | 45718-017 | 10/20/95 | 313   | 376.1/1     |
| Chloride, dissolved (mg/L)                                                                           | 72     | 1         | 45718-032 | 10/23/95 | 767   | 325.1/1     |
| Sulfate, dissolved (mg/L)                                                                            | 200    | 10        | 45718-032 | 10/20/95 | 669A  | 300.0/1     |
| Bromide, dissolved (mg/L)                                                                            | BDL    | 1         | 45718-032 | 10/24/95 | 670A  | 300.0/1     |
| Ortho Phosphate, dissolved (mg/L as P)                                                               | BOL    | 0.02      | 45718-032 | 10/19/95 | 204   | 365.2/1     |
| Ammonia-N, dissolved (mg/L as N)                                                                     | 68     | 0.5       | 45718-051 | 10/21/95 | 588   | 350.2/1     |

Field Identification: SW-14 (UNFILT)

Matrix: WATER

|                                                                                |        | Reporting |           | Date     | QC    |             |
|--------------------------------------------------------------------------------|--------|-----------|-----------|----------|-------|-------------|
| nloride (mg/L)<br>ulfate (mg/L)<br>romide (mg/L)<br>rtho Phosphate (mg/L as P) | Result | Limit     | Lab No.   | Analyzed | Batch | Method/Ref. |
| Sulfide (mg/L)                                                                 | BDL    | 1         | 45718-052 | 10/20/95 | 314   | 376.1/1     |
| Chloride (mg/L)                                                                | 72     | 1         | 45718-060 | 10/23/95 | 767   | 325.1/1     |
| Sulfate (mg/L)                                                                 | 29     | 10        | 45718-060 | 10/20/95 | 669A  | 300.0/1     |
| Bromide (mg/L)                                                                 | BOL    | 1         | 45718-060 | 10/24/95 | 671A  | 300.0/1     |
| Ortho Phosphate (mg/L as P)                                                    | BDL    | 0.02      | 45718-060 | 10/19/95 | 205   | 365.2/1     |
| Ammonia-N (mg/L as N)                                                          | BDL    | 0.05      | 45718-068 | 10/23/95 | 589   | 350.2/1     |

Field Identification: SW-12 (UNFILT)

Matrix: WATER

|                             |        | Reporting |           | Date     | QC    |             |
|-----------------------------|--------|-----------|-----------|----------|-------|-------------|
| Parameter                   | Result | Limit     | Lab No.   | Analyzed | Batch | Method/Ref. |
| Sulfide (mg/L)              | 2      | 1         | 45718-053 | 10/20/95 | 314   | 376.1/1     |
| Chloride (mg/L)             | 35     | 1         | 45718-061 | 10/23/95 | 767   | 325.1/1     |
| Sulfate (mg/L)              | 25     | 10        | 45718-061 | 10/20/95 | 669A  | 300.0/1     |
| Bromide (mg/L)              | BDL    | 1         | 45718-061 | 10/24/95 | 671A  | 300.0/1     |
| Ortho Phosphate (mg/L as P) | BDL    | 0.02      | 45718-061 | 10/19/95 | 205   | 365.2/1     |
| Ammonia-N (mg/L as N)       | 0.1    | 0.05      | 45718-069 | 10/23/95 | 589   | 350.2/1     |

₹
Field Identification: SW-12 (UNFILT/DUP)

| Parameter                   |        | Date  | QC        |          |       |             |
|-----------------------------|--------|-------|-----------|----------|-------|-------------|
|                             | Result | Limit | Lab No.   | Analyzed | Batch | Method/Ref. |
| Sulfide (mg/L)              | 3      | 1     | 45718-054 | 10/20/95 | 314   | 376.1/1     |
| Chloride (mg/L)             | 35     | 1     | 45718-062 | 10/23/95 | 767   | 325.1/1     |
| Sulfate (mg/L)              | 29     | 10    | 45718-062 | 10/20/95 | 669A  | 300.0/1     |
| Bromide (mg/L)              | BDL    | 1     | 45718-062 | 10/24/95 | 671A  | 300.0/1     |
| ortho Phosphate (mg/L as P) | BDL    | 0.02  | 45718-062 | 10/19/95 | 205   | 365.2/1     |
| Ammonia-W (mg/L as N)       | 0.10   | 0.05  | 45718-070 | 10/23/95 | 589   | 350.2/1     |



Field Identification: SW-12 (UNFILT/MS)

Matrix: WATER

|                             |        | Reporting |           | Date     | QC .  |             |
|-----------------------------|--------|-----------|-----------|----------|-------|-------------|
| Parameter                   | Result | Limit     | Lab No.   | Analyzed | Batch | Method/Ref. |
| Sulfide (mg/L)              | 45     | 1         | 45718-055 | 10/20/95 | 314   | 376.1/1     |
| Chloride (mg/L)             | 85     | 1         | 45718-063 | 10/23/95 | 767   | 325.1/1     |
| Sulfate (mg/L)              | 120    | 10        | 45718-063 | 10/20/95 | 669A  | 300.0/1     |
| Bromide (mg/L)              | 11     | 1         | 45718-063 | 10/24/95 | 671A  | 300.0/1     |
| Ortho Phosphate (mg/L as P) | 0.47   | 0.02      | 45718-063 | 10/19/95 | 205   | 365.2/1     |
| Ammonia-N (mg/L as N)       | 0.97   | 0.05      | 45718-071 | 10/23/95 | 589   | 350.2/1     |

Field Identification: SW-17 (UNFILT)

Matrix: WATER

| Parameter                   |        | Reporting |           |          |       |             |
|-----------------------------|--------|-----------|-----------|----------|-------|-------------|
|                             | Result | Limit     | Lab No.   | Analyzed | Batch | Method/Ref. |
| Sulfide (mg/L)              | 5      | 1         | 45718-056 | 10/20/95 | 314   | 376.1/1     |
| Chloride (mg/L)             | 160    | 1         | 45718-064 | 10/23/95 | 767   | 325.1/1     |
| Sulfate (mg/L)              | 520    | 10        | 45718-064 | 10/20/95 | 669A  | 300.0/1     |
| Bromide (mg/L)              | BDL    | 1         | 45718-064 | 10/24/95 | 671A  | 300.0/1     |
| Ortho Phosphate (mg/L as P) | BOL    | 0.02      | 45718-064 | 10/19/95 | 205   | 365.2/1     |
| Ammonia-N (mg/L as N)       | 90     | 10        | 45718-072 | 10/23/95 | 589   | 350.2/1     |

Field Identification: SW FIELD REP (UNFILT)

Matrix: WATER

|                             |        | Reporting |           |          |       |             |
|-----------------------------|--------|-----------|-----------|----------|-------|-------------|
| Parameter                   | Result | Limit     | Lab No.   | Analyzed | Batch | Method/Ref. |
| Sulfide (mg/L)              | BDL    | 1         | 45718-057 | 10/20/95 | 314   | 376.1/1     |
| Chloride (mg/L)             | 160    | 1         | 45718-065 | 10/23/95 | 767   | 325.1/1     |
| Sulfate (mg/L)              | 540    | 10        | 45718-065 | 10/20/95 | 669A  | 300.0/1     |
| Bromide (mg/L)              | BDL    | 1         | 45718-065 | 10/24/95 | 671A  | 300.0/1     |
| Ortho Phosphate (mg/L as P) | BDL    | 0.02      | 45718-065 | 10/19/95 | 205   | 365.2/1     |
| Ammonia-N (mg/L as N)       | 90     | 10        | 45718-073 | 10/23/95 | 589   | 350.2/1     |

Field Identification: SW-16 (UNFILT)

|                             |        |       | Date      | QC       |       |             |
|-----------------------------|--------|-------|-----------|----------|-------|-------------|
| Parameter                   | Result | Limit | Lab No.   | Analyzed | Batch | Method/Ref. |
| Sulfide (mg/L)              | BDL    | 1     | 45718-058 | 10/20/95 | 314   | 376.1/1     |
| Chloride (mg/L)             | 78     | 1     | 45718-066 | 10/23/95 | 767   | 325.1/1     |
| Sulfate (mg/L)              | 1100   | 50    | 45718-066 | 10/24/95 | 670A  | 300.0/1     |
| Bromide (mg/L)              | BDL    | 1     | 45718-066 | 10/24/95 | 671A  | 300.0/1     |
| Ortho Phosphate (mg/L as P) | BDL    | 0.02  | 45718-066 | 10/19/95 | 205   | 365.2/1     |
| Ammonia-N (mg/L as N)       | 60     | 10    | 45718-074 | 10/23/95 | 589   | 350.2/1     |



Field Identification: GW-500 (UNFILT)

Matrix: WATER

|                             |        |       | Date      | QC       |       |             |
|-----------------------------|--------|-------|-----------|----------|-------|-------------|
| Parameter                   | Result | Limit | Lab No.   | Analyzed | Batch | Method/Ref. |
| Sulfide (mg/L)              | BDL    | 1     | 45718-059 | 10/20/95 | 314   | 376.1/1     |
| Chloride (mg/L)             | BOL    | 1     | 45718-067 | 10/23/95 | 767   | 325.1/1     |
| Sulfate (mg/L)              | BOL    | 1     | 45718-067 | 10/24/95 | 670A  | 300.0/1     |
| Bromide (mg/L)              | BDL    | 1     | 45718-067 | 10/24/95 | 671A  | 300.0/1     |
| Ortho Phosphate (mg/L as P) | BDL    | 0.02  | 45718-067 | 10/19/95 | 205   | 365.2/1     |
| Ammonia-N (mg/L as N)       | BDL    | 0.05  | 45718-075 | 10/23/95 | 589   | 350.2/1     |

References: 1) 40 CFR Part 136, Friday, October 26, 1984





Lab Number: WL-1644-1 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 1 of 33

| SAMPLE DESCRIPTION              | MATRIX SAMPLED BY |         |     |             |     | SAMPLED DATE RECEIV |          |    |          |  |
|---------------------------------|-------------------|---------|-----|-------------|-----|---------------------|----------|----|----------|--|
| GW-80S (UNFILIT)                | Aqu               | Асресив |     | R. MEHALICK |     |                     |          | 5  | 10/19/95 |  |
| PARAMETER                       | RESULT            | UNITS   | DF  | *PQL        | MET | <b>1</b> 00         | ANALYZED | BY | NOTES    |  |
| TCL Volatile Organics +         |                   |         |     |             |     |                     |          |    | 1        |  |
| Trimethylpentenes by USEPA 8240 |                   |         |     |             |     |                     |          |    |          |  |
| Chloromethane                   | <10.              | μg/L    | 1.0 | 10          | EPA | 8240                | 10/20/95 | TG |          |  |
| Bromomethane                    | <10.              | μg/L    | 1.0 | 10          | EPA | 8240                | 10/20/95 | TG |          |  |
| Vinyl chloride                  | <10.              | μg/L    | 1.0 | 10          | EPA | 8240                | 10/20/95 | TG |          |  |
| Chloroethane                    | <10.              | μg/L    | 1.0 | 10          | EPA | 8240                | 10/20/95 | TG |          |  |
| Methylene chloride              | <10.              | μg/L    | 1.0 | 10          | EPA | 8240                | 10/20/95 | TG |          |  |
| Acetone                         | 52.               | μg/L    | 1.0 | 15          | EPA | 8240                | 10/20/95 | TG |          |  |
| Carbon disulfide                | <10.              | μg/L    | 1.0 | 10          | EPA | 8240                | 10/20/95 | TG |          |  |
| 1,1-Dichloroethene              | <5.               | μg/L    | 1.0 | 5           | EPA | 8240                | 10/20/95 | TG |          |  |
| 1,1-Dichloroethane              | <5.               | μg/L    | 1.0 | 5           | EPA | 8240                | 10/20/95 | TG |          |  |
| Total 1,2-Dichloroethene        | 14.               | μg/L    | 1.0 | 5           | EPA | 8240                | 10/20/95 | TG |          |  |
| Chloroform                      | <5.               | μg/L    | 1.0 | 5           | EPA | 8240                | 10/20/95 | TG |          |  |
| 1,2-Dichloroethane              | <5.               | μg/L    | 1.0 | 5           | EPA | 8240                | 10/20/95 | TG |          |  |
| 2-Butanone                      | 19.               | μg/L    | 1.0 |             |     |                     | 10/20/95 | TG |          |  |
| 1,1,1-Trichloroethane           | <5.               | μg/L    | 1.0 | 5           | EPA | 8240                | 10/20/95 | TG |          |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values. (1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

11/06/95

LJO/jcbgbp (dw)/jfg/lag/sra

CC: OLIN-TIN/STEVE MORROW SMITH/RICK SACKS PTT/CHRIS SELLSTONE



Lab Number: WL-1644-1 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

#### REPORT OF ANALYTICAL RESULTS

Page 2 of 33

| SAMPLE DESCRIPTION        | MAI            | MATRIX SAMPLED BY |     |          |                 |          | SAMPLED DATE |       |  |
|---------------------------|----------------|-------------------|-----|----------|-----------------|----------|--------------|-------|--|
| GW-80S (UNFILIT)          | Aqu            | Aquecus           |     | R. MEHAL | 10/19/95        |          | 10/19/95     |       |  |
| PARAMETER                 | RESULT         | UNITS             | DF  | *PQL     | METHOD          | ANALYZED | BY           | NOTES |  |
| Carbon tetrachloride      | <5.            | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | TG           |       |  |
| Vinyl acetate             | <15.           | μg/L              | 1.0 | 15       | EPA 8240        | 10/20/95 | TG           |       |  |
| Bromodichloromethane      | <5.            | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | TG           |       |  |
| 1,2-Dichloropropane       | <5.            | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | TG           |       |  |
| cis-1,3-Dichloropropene   | <5.            | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | TG           |       |  |
| Trichloroethene           | <5.            | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | TG           |       |  |
| Dibramochloromethane      | <5.            | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | TG           |       |  |
| 1,1,2-Trichlorcethane     | <5.            | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | TG           |       |  |
| Benzene                   | 28.            | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | TG           |       |  |
| trans-1,3-Dichloropropene | <5.            | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | TG           |       |  |
| Bromoform                 | <b>&lt;</b> 5. | μg/L              | 1.0 | 5        | <b>EPA 8240</b> | 10/20/95 | TG           |       |  |
| 2,4,4-Trimethyl-2-pentene | <10.           | μg/L              | 1.0 | 10       | EPA 8240        | 10/20/95 | TG           |       |  |
| 2,4,4-Trimethyl-1-pentene | <10.           | μg/L              | 1.0 | 10       | EPA 8240        | 10/20/95 | TG           |       |  |
| 4-Methyl-2-pentanone      | <15.           | μg/L              | 1.0 | 15       | EPA 8240        | 10/20/95 | TG           |       |  |
| 2-Hexanone                | <15.           | μg/L              | 1.0 | 15       | EPA 8240        | 10/20/95 | TG           |       |  |
| Tetrachloroethene         | <5.            | μg/L              | 1.0 | 5        |                 | 10/20/95 | TG           |       |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LUD/jcbgbp(dw)/jfg/lag/sra

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PTI/CHRIS SELLSTONE



Lab Number: WL-1644-1 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION                | MAIRIX  |         |     | SAMPLED  | BY              | SAMPLED D | RECEIVED |       |
|-----------------------------------|---------|---------|-----|----------|-----------------|-----------|----------|-------|
| GW-80S (UNIFILIT) PARAMETER       | Aqu     | Aqueous |     | R. MEHAL | ICK             | 10/19/9   | 10/19/95 |       |
|                                   | RESULT  | UNITS   | DF  | *PQL     | METHOD          | ANALYZED  | BY       | NOTES |
| 1,1,2,2-Tetrachloroethane         | <br><5. | μg/L    | 1.0 | 5        | EPA 8240        | 10/20/95  | TG       |       |
| Toluene                           | 4400.   | μg/L    | 50. | 5        | <b>KPA 8240</b> | 10/20/95  | TG       |       |
| Chlorobenzene                     | JI.     | μg/L    | 1.0 | 5        | EPA 8240        | 10/20/95  | TG       |       |
| Ethylbenzene                      | 1300.   | μg/L    | 50. | 5        | EPA 8240        | 10/20/95  | TG       |       |
| Styrene                           | <5.     | μg/L    | 1.0 | 5        | EPA 8240        | 10/20/95  | TG       |       |
| Total Xylenes                     | 2800.   | μg/L    | 50. | 5        | EPA 8240        | 10/20/95  | TG       |       |
| 1,2-Dichloroethane-d4(% Recovery) | 95.     | *       | 1.0 |          | EPA 8240        | 10/20/95  | TG       |       |
| Toluene-d8 (% Recovery)           | 91.     | *       | 1.0 |          | EPA 8240        | 10/20/95  | TG       |       |
| p-Bromofluorobenzene (* Recovery) | 99.     | *       | 1.0 |          | EPA 8240        | 10/20/95  | TG       |       |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: CLIN-TN/STEVE MORROW SMITH/RICK SACKS PTI/CHRIS SELLSTONE



Lab Number: WL-1644-2 Report Date: 11/06/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

#### REPORT OF ANALYTICAL RESULTS

Page 4 of 33

| SAMPLE DESCRIPTION              | MAC            | MATRIX Aqueous |     |      | BY       | SAMPLED DATE RECEIVED |          |       |  |
|---------------------------------|----------------|----------------|-----|------|----------|-----------------------|----------|-------|--|
| GW-80D (UNFILIT)                | Aqı            |                |     |      | ick      | 10/19/9               | 10/19/95 |       |  |
| PARAMETER                       | RESULT         | UNITS          | DF  | *PQL | WEITHOD  | ANALYZED              | BY       | NOTES |  |
| TCL Volatile Organics +         |                |                |     |      |          |                       |          | 1,2   |  |
| Trimethylpentenes by USEPA 8240 |                |                |     |      |          |                       |          |       |  |
| Chloromethane                   | <10.           | μg/L           | 1.0 | 10   | EPA 8240 | 10/20/95              | LG       |       |  |
| Bromomethane                    | <10.           | μg/L           | 1.0 | 10   | EPA 8240 | 10/20/95              | LG       |       |  |
| Vinyl chloride                  | 19.            | μg/L           | 1.0 | 10   | EPA 8240 | 10/20/95              | IG       |       |  |
| Chloroethane                    | J230           | μg/L           | 50. | 10   | EPA 8240 | 10/20/95              | IG       |       |  |
| Methylene chloride              | B31            | μg/L           | 1.0 | 10   | EPA 8240 | 10/20/95              | IG       |       |  |
| Acetone                         | 31.            | μg/L           | 1.0 | 15   | EPA 8240 | 10/20/95              | IG       |       |  |
| Carbon disulfide                | <10.           | μg/L           | 1.0 | 10   | EPA 8240 | 10/20/95              | LG       |       |  |
| 1,1-Dichloroethene              | J2             | μg/L           | 1.0 | 5    | EPA 8240 | 10/20/95              | LG       |       |  |
| 1,1-Dichloroethane              | 430.           | μg/L           | 50. | 5    | EPA 8240 | 10/20/95              | LG       |       |  |
| Total 1,2-Dichloroethene        | 160.           | μg/L           | 1.0 | 5    | EPA 8240 | 10/20/95              | LG       |       |  |
| Chloroform                      | <b>&lt;</b> 5. | μg/L           | 1.0 | 5    | EPA 8240 | 10/20/95              | IG       |       |  |
| 1,2-Dichlorcethane              | <b>&lt;</b> 5. | μg/L           | 1.0 |      |          | 10/20/95              | IG       |       |  |
| 2-Butanone                      | J13            | μg/L           | 1.0 | 15   | EPA 8240 | 10/20/95              | IG       |       |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp (dw) /jfg/lag/sra

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PII/CHRIS SELLSTONE

<sup>(1) &</sup>quot;J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

<sup>(2) &</sup>quot;B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.



Lab Number: WL-1644-2 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

### REPORT OF ANALYTICAL RESULTS

Page 5 of 33

| SAMPLE DESCRIPTION        | MAT            | MATRIX SAMPLED BY |     |          |                 |          | SAMPLED DATE |       |  |
|---------------------------|----------------|-------------------|-----|----------|-----------------|----------|--------------|-------|--|
| GW-80D (UNFILT)           | Aqu            | ecus              |     | R. MEHAL | 10/19/95        |          | 10/19/95     |       |  |
| PARAMETER                 | RESULT         | UNITS             | DF  | *PQL     | METHOD          | ANALYZED | BY           | NOTES |  |
| 1,1,1-Trichloroethane     | <5.            | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | LG           |       |  |
| Carbon tetrachloride      | <5 <i>.</i>    | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | LG           |       |  |
| Vinyl acetate             | <15.           | μg/L              | 1.0 | 15       | EPA 8240        | 10/20/95 | LG           |       |  |
| Bromodichloromethane      | <5.            | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | IG           |       |  |
| 1,2-Dichloropropane       | <5.            | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | LG           |       |  |
| cis-1,3-Dichloropropene   | <5 <i>.</i>    | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | LG           |       |  |
| Trichloroethene           | <5.            | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | LG           |       |  |
| Dibranochloramethane      | <b>&lt;5.</b>  | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | LG           |       |  |
| 1,1,2-Trichloroethane     | · <5.          | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | LG           |       |  |
| Benzene                   | 94.            | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | LG           |       |  |
| trans-1,3-Dichloropropene | <5.            | μg/L              | 1.0 | 5        | <b>EPA 8240</b> | 10/20/95 | LG           |       |  |
| Bronoform                 | <b>&lt;</b> 5. | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95 | IG           |       |  |
| 2,4,4-Trimethyl-2-pentene | <10.           | μg/L              | 1.0 | 10       | EPA 8240        | 10/20/95 | LG           |       |  |
| 2,4,4-Trimethyl-1-pentene | <10.           | μg/L              | 1.0 | 10       | EPA 8240        | 10/20/95 | LG           |       |  |
| 4-Methyl-2-pentanone      | <15.           | μg/L              | 1.0 | 15       | EPA 8240        | 10/20/95 | IG           |       |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LIO/jcbgbp (dw) /jfg/lag/sra

CC: CLIN-TN/STEVE MORROW SMITH/RICK SACKS PIT/CHRIS SELLSTONE



Lab Number: WL-1644-2 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
CLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 6 of 33

| SAMPLE DESCRIPTION                | CAM:                             | MATRIX SAMPLED BY |     |                         |          |          | SAMPLED DATE RECEIVED |       |         |          |
|-----------------------------------|----------------------------------|-------------------|-----|-------------------------|----------|----------|-----------------------|-------|---------|----------|
| GW-80D (UNFILT)                   | 80D (UNFILIT) Aqueous R. MEHALLO |                   |     | 80D (UNFILIT) Aqueous F |          |          |                       | ICK   | 10/19/9 | 10/19/95 |
| PARAMETER                         | RESULT                           | UNITS             | DP  | *PQL                    | METHOD   | ANALYZED | BY                    | NOTES |         |          |
| 2-Hexanone                        | <15.                             | μg/L              | 1.0 | 15                      | EPA 824  | 10/20/95 | IG                    |       |         |          |
| Tetrachloroethene                 | <5.                              | μg/L              | 1.0 | 5                       | EPA 8240 | 10/20/95 | LG                    |       |         |          |
| 1,1,2,2-Tetrachloroethane         | <5.                              | μg/L              | 1.0 | 5                       | EPA 8240 | 10/20/95 | LG                    |       |         |          |
| Toluene                           | 7100.                            | μg/L              | 50. | 5                       | EPA 8240 | 10/20/95 | LG                    |       |         |          |
| Chlorobenzene                     | 79.                              | μg/L              | 1.0 | 5                       | EPA 8240 | 10/20/95 | IG                    |       |         |          |
| Ethylbenzene                      | 340.                             | μg/L              | 50. | 5                       | EPA 8240 | 10/20/95 | LG                    |       |         |          |
| Styrene                           | <5.                              | μg/L              | 1.0 | 5                       | EPA 8240 | 10/20/95 | LG                    |       |         |          |
| Total Xylenes                     | 1100.                            | μg/L              | 50. | 5                       | EPA 8240 | 10/20/95 | IG                    |       |         |          |
| 1,2-Dichlorcethane-d4(% Recovery) | 103.                             | *                 | 1.0 |                         | EPA 8240 | 10/20/95 | IG                    |       |         |          |
| Toluene-d8 (* Recovery)           | 91.                              | ¥                 | 1.0 |                         | EPA 8240 | 10/20/95 | LG                    |       |         |          |
| p-Bromofluorobenzene (* Recovery) | 103.                             | ŧ                 | 1.0 |                         | EPA 8240 | 10/20/95 | IG                    |       |         |          |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PII/CHRIS SELLSTONE



## REPORT OF LABORATORY ANALYSIS

Lab Number: WL-1644-3 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION              |        | SAMPLED | BY |             | SAMPLED DATE RECEIVE |      |          |    |          |
|---------------------------------|--------|---------|----|-------------|----------------------|------|----------|----|----------|
| CW-80BR (UNFILT)                | Aqu    | Aqueous |    | R. MEHALICK |                      |      | 10/19/9  | 5  | 10/19/95 |
| PARAMETER                       | RESULT | UNITS   | DF | *PQL        | METI                 | #COD | ANALYZED | BY | NOTES    |
| TCL Volatile Organics +         |        |         |    |             |                      |      |          |    | 1,2,3    |
| Trimethylpentenes by USEPA 8240 |        |         |    |             |                      |      |          |    |          |
| Chloromethane                   | <100.  | μg/L    | 10 | 10          | EPA                  | 8240 | 10/20/95 | TG |          |
| Brommethane                     | <100.  | μg/L    | 10 | 10          | EPA                  | 8240 | 10/20/95 | TG |          |
| Vinyl chloride                  | 300.   | μg/L    | 10 | 10          | EPA                  | 8240 | 10/20/95 | TG |          |
| Chloroethane                    | 790.   | μg/L    | 10 | 10          | EPA                  | 8240 | 10/20/95 | TG |          |
| Methylene chloride              | B220   | μg/L    | 10 | 10          | EPA                  | 8240 | 10/20/95 | TG |          |
| Acetone                         | 280.   | μg/L    | 10 | 15          | EPA                  | 8240 | 10/20/95 | TG |          |
| Carbon disulfide                | <100.  | μg/L    | 10 | 10          | EPA                  | 8240 | 10/20/95 | TG |          |
| 1,1-Dichloroethene              | 120.   | μg/L    | 10 | 5           | EPA                  | 8240 | 10/20/95 | TG |          |
| 1,1-Dichloroethane              | 1100.  | μg/L    | 10 | 5           | EPA                  | 8240 | 10/20/95 | TG |          |
| Total 1,2-Dichloroethene        | 1300.  | μg/L    | 10 | 5           | EPA                  | 8240 | 10/20/95 | TG |          |
| Chloroform                      | <50.   | μg/L    | 10 | 5           | EPA                  | 8240 | 10/20/95 | TG |          |
| 1,2-Dichloroethane              | J23    | μg/L    | 10 | 5           | EPA                  | 8240 | 10/20/95 | TG |          |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: CLIN-TN/STEVE MORROW SMITH/RICK SACKS PII/CHRIS SELLSIONE

<sup>(1) &</sup>quot;J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

<sup>(2) &</sup>quot;B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

<sup>(3)</sup> Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.



Lab Number: WL-1644-3 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

#### REPORT OF ANALYTICAL RESULTS

Page 8 of 33

| SAMPLE DESCRIPTION        | TE DESCRIPTION MATRIX SAMPLED BY |         |    |           |                 | SAMPLED I | ATE | E RECEIVED |  |
|---------------------------|----------------------------------|---------|----|-----------|-----------------|-----------|-----|------------|--|
| CW-80BR (UNFILT)          | Aqu                              | Aqueous |    | R. MEHALI | 10/19/9         | 10/19/95  |     |            |  |
| PARAMETER                 | RESULT                           | UNITS   | DF | *PQL      | METHOD          | ANALYZED  | BY  | NOTES      |  |
| 2-Butanone                | 300.                             | μg/L    | 10 | 15        | EPA 8240        | 10/20/95  | TG  |            |  |
| 1,1,1-Trichloroethane     | 1500.                            | μg/L    | 10 | 5         | EPA 8240        | 10/20/95  | TG  |            |  |
| Carbon tetrachloride      | <50.                             | μg/L    | 10 | 5         | EPA 8240        | 10/20/95  | TG  |            |  |
| Vinyl acetate             | <150.                            | μg/L    | 10 | 15        | EPA 8240        | 10/20/95  | TG  |            |  |
| Bromodichloromethane      | <50.                             | μg/L    | 10 | 5         | EPA 8240        | 10/20/95  | TG  |            |  |
| 1,2-Dichloropropane       | <50.                             | μg/L    | 10 | 5         | EPA 8240        | 10/20/95  | TG  |            |  |
| cis-1,3-Dichloropropene   | <50.                             | μg/L    | 10 | 5         | EPA 8240        | 10/20/95  | TG  |            |  |
| Trichloroethene           | 56.                              | μg/L    | 10 | 5         | EPA 8240        | 10/20/95  | TG  |            |  |
| Dibromochloromethane      | <50.                             | μg/L    | 10 | 5         | <b>EPA 8240</b> | 10/20/95  | TG  |            |  |
| 1,1,2-Trichloroethane     | J26                              | μg/L    | 10 | 5         | EPA 8240        | 10/20/95  | TG  |            |  |
| Benzene                   | 130.                             | μg/L    | 10 | 5         | EPA 8240        | 10/20/95  | TG  |            |  |
| trans-1,3-Dichloropropene | <50 <i>.</i>                     | μg/L    | 10 | 5         | <b>EPA 8240</b> | 10/20/95  | TG  |            |  |
| Bromoform                 | J12                              | μg/L    | 10 | 5         | EPA 8240        | 10/20/95  | TG  |            |  |
| 2,4,4-Trimethyl-2-pentene | <100.                            | μg/L    | 10 | 10        | EPA 8240        | 10/20/95  | TG  |            |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PIT/CHRIS SELLSTONE



Lab Number : WL-1644-3
Report Date: 11/06/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION                | MAT    | MATRIX  |      |             |          | SAMPLED DATE RECEIVED |          |       |  |
|-----------------------------------|--------|---------|------|-------------|----------|-----------------------|----------|-------|--|
| GW-80BR (UNFILT)                  | Aqu    | Aqueous |      | R. MEHALICK | 10/19/95 |                       | 10/19/95 |       |  |
| PARAMETER                         | RESULT | UNITS   | DF   | *PQL ME     | IHOD     | ANALYZED              | BY       | NOTES |  |
| 2,4,4-Trimethyl-1-pentene         | <100.  | μg/L    | 10   | 10 KP.      | A 8240   | 10/20/95              | TG       |       |  |
| 4-Methyl-2-pentanone              | 1200.  | μg/L    | 10   | 15 RP       | A 8240   | 10/20/95              | TG       |       |  |
| 2-Hexanone                        | <150.  | μg/L    | 10   | 15 RP.      | A 8240   | 10/20/95              | TG       |       |  |
| Tetrachloroethene                 | J43    | μg/L    | 10   | 5 RP.       | A 8240   | 10/20/95              | TG       |       |  |
| 1,1,2,2-Tetrachloroethane         | JB41   | μg/L    | 10   | 5 RD2       | A 8240   | 10/20/95              | TG       |       |  |
| Toluene                           | 15000. | μg/L    | 100. | 5 KDP       | A 8240   | 10/20/95              | TG       |       |  |
| Chlorobenzene                     | 170.   | μg/L    | 10   | 5 RDP       | A 8240   | 10/20/95              | TG       |       |  |
| Ethylbenzene                      | 290.   | μg/L    | 10   | 5 RP        | A 8240   | 10/20/95              | TG       |       |  |
| Styrene                           | <50.   | μg/L    | 10   | 5 RIP.      | A 8240   | 10/20/95              | TG       |       |  |
| Total Xylenes                     | 1100.  | μg/L    | 10   | 5 RD        | A 8240   | 10/20/95              | TG       |       |  |
| 1,2-Dichloroethane-d4(% Recovery) | 96.    | *       | 10   | KP          | A 8240   | 10/20/95              | TG       |       |  |
| Toluene-d8 (% Recovery)           | 96.    | *       | 10   | EP          | A 8240   | 10/20/95              | TG       |       |  |
| p-Bromofluorobenzene (* Recovery) | 100.   | *       | 10   | EP          | A 8240   | 10/20/95              | TG       |       |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PIT/CHRIS SELLSTONE

> P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400



## REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-4 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 10 of 33

| SAMPLE DESCRIPTION              | MAI    | MATRIX SAMPLED BY |    |          |          |          | SAMPLED DATE RECEIVED |       |  |
|---------------------------------|--------|-------------------|----|----------|----------|----------|-----------------------|-------|--|
| GW-80BR (UNFILT/DUP)            | Aqu    | eous              |    | R. MEHAL | 10/19/9  | 10/19/95 |                       |       |  |
| PARAMETER                       | RESULT | UNITS             | DF | *PQL     | WEIHOD   | ANALYZED | BY                    | NOTES |  |
| TCL Volatile Organics +         |        |                   |    |          |          | <u>-</u> |                       | 1,2,3 |  |
| Trimethylpentenes by USEPA 8240 |        |                   |    |          |          |          |                       |       |  |
| Chloromethane                   | <100.  | μg/L              | 10 | 10       | EPA 8240 | 10/20/95 | TG                    |       |  |
| Bromomethane                    | <100.  | μg/L              | 10 | 10       | EPA 8240 | 10/20/95 | TG                    |       |  |
| Vinyl chloride                  | 410.   | μg/L              | 10 | 10       | EPA 8240 | 10/20/95 | TG                    |       |  |
| Chloroethane                    | 1100.  | μg/L              | 10 | 10       | EPA 8240 | 10/20/95 | TG                    |       |  |
| Methylene chloride              | B230   | μg/L              | 10 | 10       | EPA 8240 | 10/20/95 | TG                    |       |  |
| Acetone                         | <150.  | μg/L              | 10 | 15       | EPA 8240 | 10/20/95 | TG                    |       |  |
| Carbon disulfide                | <100.  | μg/L              | 10 | 10       | EPA 8240 | 10/20/95 | TG                    |       |  |
| 1,1-Dichloroethene              | 130.   | μg/L              | 10 | 5        | EPA 8240 | 10/20/95 | TG                    |       |  |
| 1,1-Dichloroethane              | 1500.  | μg/L              | 10 | 5        | EPA 8240 | 10/20/95 | TG                    |       |  |
| Total 1,2-Dichloroethene        | 1700.  | μg/L              | 10 |          |          | 10/20/95 | TG                    |       |  |
| Chloroform                      | <50.   | μg/L              | 10 |          |          | 10/20/95 | TG                    |       |  |
| 1,2-Dichloroethane              | J13    | μg/L              | 10 |          | -        | 10/20/95 | TG                    |       |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp (dw) /jfg/lag/sra

CC: CLIN-TN/STEVE MORROW
SMITH/RICK SACKS
PTI/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

<sup>(1) &</sup>quot;J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

<sup>(2) &</sup>quot;B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

<sup>(3)</sup> Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.



Lab Number: WL-1644-4

Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION        | MAS    | MATRIX SAMPLED B |    |      |             | SAMPLED D | RECEIVED |                                       |
|---------------------------|--------|------------------|----|------|-------------|-----------|----------|---------------------------------------|
| GW-80BR (UNFILIT/DUP)     | Aq.    | Aqueous          |    |      | R. MEHALICK |           |          | 10/19/95                              |
| PARAMETER                 | RESOLT | UNITS            | DF | +PQL | METHOD      | ANALYZED  | BY       | NOTES                                 |
| 2-Butanone                | 390.   | μg/L             | 10 | 15   | KPA 8240    | 10/20/95  | TG       | · · · · · · · · · · · · · · · · · · · |
| 1,1,1-Trichloroethane     | 2000.  | μg/L             | 10 | 5    | EPA 8240    | 10/20/95  | TG       |                                       |
| Carbon tetrachloride      | <50.   | μg/L             | 10 | 5    | EPA 8240    | 10/20/95  | TG       |                                       |
| Vinyl acetate             | <150.  | μg/L             | 10 | 15   | EPA 8240    | 10/20/95  | TG       |                                       |
| Bramodichloromethane      | <50.   | μg/L             | 10 | 5    | EPA 8240    | 10/20/95  | TG       |                                       |
| 1,2-Dichloropropane       | <50.   | μg/L             | 10 | 5    | EPA 8240    | 10/20/95  | TG       |                                       |
| cis-1,3-Dichloropropene   | <50.   | μg/L             | 10 | 5    | EPA 8240    | 10/20/95  | TG       |                                       |
| Trichloroethene           | 53.    | μg/L             | 10 | 5    | EPA 8240    | 10/20/95  | TG       |                                       |
| Dibromochloromethane      | <50.   | μg/L             | 10 | 5    | EPA 8240    | 10/20/95  | TG       |                                       |
| 1,1,2-Trichloroethane     | J21    | μg/L             | 10 | 5    | EPA 8240    | 10/20/95  | TG       |                                       |
| Benzene                   | 150.   | μg/L             | 10 | 5    | EPA 8240    | 10/20/95  | TG       |                                       |
| trans-1,3-Dichloropropene | <50.   | μg/L             | 10 | 5    | EPA 8240    | 10/20/95  | TG       |                                       |
| Bromoform                 | <50.   | μg/L             | 10 | 5    | EPA 8240    | 10/20/95  | TG       |                                       |
| 2,4,4-Trimethyl-2-pentene | <100.  | μg/L             | 10 | 10   | EPA 8240    | 10/20/95  | TG       |                                       |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp (dw) /jfg/lag/sra

CC: CLIN-TN/STEVE MORROW SMITH/RICK SACKS PTI/CHRIS SELLSTONE



Lab Number: WL-1644-4

Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

### REPORT OF ANALYTICAL RESULTS

Page 12 of 33

| SAMPLE DESCRIPTION                | MATRIX |         |      | SAMPLED BY  | SAMPLED DATE RECEIVED |          |       |  |
|-----------------------------------|--------|---------|------|-------------|-----------------------|----------|-------|--|
| GW-80BR (ONFILT/DOP)              | Aqu    | Aqueous |      | R. MEHALICK | 10/19/9               | 10/19/95 |       |  |
| PARAMETER                         | RESULT | UNITS   | DF   | *PQL METHOD | ANALYZED              | BY       | NOTES |  |
| 2,4,4-Trimethyl-1-pentene         | <100.  | μg/L    | 10   | 10 EPA 824  | 0 10/20/95            | TG       |       |  |
| 4-Methyl-2-pentancne              | 1600.  | μg/L    | 10   | 15 EPA 824  | 10/20/95              | TG       |       |  |
| 2-Hexanone                        | <150.  | μg/L    | 10   | 15 KPA 824  | 10/20/95              | TG       |       |  |
| Tetrachloroethene                 | J39    | μg/L    | 10   | 5 EPA 82    | 10/20/95              | TG       |       |  |
| 1,1,2,2-Tetrachloroethane         | JB33   | μg/L    | 10   | 5 EPA 82    | 10/20/95              | TG       |       |  |
| Toluene                           | 15000. | μg/L    | 100. | 5 EPA 824   | 10/20/95              | TG       |       |  |
| Chlorobenzene                     | 190.   | μg/L    | 10   | 5 EPA 824   | 10/20/95              | TG       |       |  |
| Ethylbenzene                      | 350.   | μg/L    | 10   | 5 EPA 824   | 10/20/95              | TG       |       |  |
| Styrene                           | <50.   | μg/L    | 10   | 5 EPA 824   | 10/20/95              | TG       |       |  |
| Total Xylenes                     | 1300.  | μg/L    | 10   | 5 KPA 824   | 10/20/95              | TG       |       |  |
| 1,2-Dichloroethane-d4(% Recovery) | 99.    | ¥       | 10   | EPA 824     | 10/20/95              | TG       |       |  |
| Toluene-d8 (* Recovery)           | 99.    | *       | 10   | EPA 824     | 10/20/95              | TG       |       |  |
| p-Bramofluorobenzene (* Recovery) | 102.   | ŧ       | 10   | EPA 824     | 10/20/95              | TG       |       |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: CLIN-TN/STEVE MORROW SMITH/RICK SACKS PTI/CHRIS SELLSTONE

> P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400



Lab Number: WL-1644-5 Report Date: 11/06/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

### REPORT OF ANALYTICAL RESULTS

Page 13 of 33

| SAMPLE DESCRIPTION              | PLE DESCRIPTION MATRIX SAMPLED BY |         |      |      |             |      | SAMPLED D | ata      | RECEIVED |
|---------------------------------|-----------------------------------|---------|------|------|-------------|------|-----------|----------|----------|
| GW-80BR (UNFILIT/MS)            | Aqu                               | Aqueous |      |      | R. MEHALICK |      |           | 10/19/95 |          |
| PARAMETER                       | RESULT                            | UNITS   | DF   | *PQL | MEIH        | 00   | ANALYZED  | BY       | NOTES    |
| TCL Volatile Organics +         |                                   |         | -    |      |             |      |           |          | 1,2      |
| Trimethylpentenes by USEPA 8240 |                                   |         |      |      |             |      |           |          |          |
| Chloromethane                   | 370.                              | μg/L    | 10   | 10   | EPA         | 8240 | 10/20/95  | TG       |          |
| Bromomethane                    | 460.                              | μg/L    | 10   | 10   | EPA         | 8240 | 10/20/95  | TG       |          |
| Vinyl chloride                  | 780.                              | μg/L    | 10   | 10   | <b>EPA</b>  | 8240 | 10/20/95  | TG       |          |
| Chloroethane                    | 1300.                             | μg/L    | 10   | 10   | EPA         | 8240 | 10/20/95  | TG       |          |
| Methylene chloride              | B690                              | μg/L    | 10   | 10   | EPA         | 8240 | 10/20/95  | TG       |          |
| Acetone                         | 710.                              | μg/L    | 10   | 15   | EPA         | 8240 | 10/20/95  | TG       |          |
| Carbon disulfide                | 470.                              | μg/L    | 10   | 10   | EPA         | 8240 | 10/20/95  | TG       |          |
| 1,1-Dichloroethene              | 630.                              | μg/L    | 10   | 5    | EPA         | 8240 | 10/20/95  | TG       |          |
| 1,1-Dichloroethane              | 1800.                             | μg/L    | 10   | 5    | EPA         | 8240 | 10/20/95  | TG       |          |
| Total 1,2-Dichloroethene        | 11000.                            | μg/L    | 100. | 5    | EPA         | 8240 | 10/20/95  | TG       |          |
| Chloroform                      | 510.                              | μg/L    | 10   | 5    | EPA         | 8240 | 10/20/95  | TG       |          |
| 1,2-Dichloroethane              | 520.                              | μg/L    | 10   | 5    | <b>EPA</b>  | 8240 | 10/20/95  | TG       |          |
| 2-Butanone                      | 550.                              | μg/L    | 10   | 15   | EPA :       | 8240 | 10/20/95  | TG       |          |
|                                 |                                   |         |      |      |             |      |           |          |          |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

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CC: CLIN-TN/STEVE MORROW SMITH/RICK SACKS PIT/CHRIS SELLSTONE

<sup>(1) &</sup>quot;B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

<sup>(2)</sup> Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.



Lab Number: WL-1644-5 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 14 of 33

| SAMPLE DESCRIPTION        | MAJ    | MATRIX  |      |             | SAMPLED BY      |          |    | RECEIVED |  |
|---------------------------|--------|---------|------|-------------|-----------------|----------|----|----------|--|
| GW-80BR (UNFILIT/MS)      | Acqu   | Aqueous |      | R. MEHALICK |                 |          | )5 | 10/19/95 |  |
| PARAMETER                 | RESULT | UNITS   | DF   | *PQL        | METHOD          | ANALYZED | BY | NOTES    |  |
| 1,1,1-Trichloroethane     | 6800.  | μg/L    | 100. | 5           | EPA 8240        | 10/20/95 | TG |          |  |
| Carbon tetrachloride      | 500.   | μg/L    | 10   | 5           | EPA 8240        | 10/20/95 | TG |          |  |
| Vinyl acetate             | 370.   | μg/L    | 10   | 15          | EPA 8240        | 10/20/95 | TG |          |  |
| Branodichloromethane      | 500.   | μg/L    | 10   | 5           | <b>EPA 8240</b> | 10/20/95 | TG |          |  |
| 1,2-Dichloropropane       | 520.   | μg/L    | 10   | 5           | EPA 8240        | 10/20/95 | TG |          |  |
| cis-1,3-Dichloropropene   | 500.   | μg/L    | 10   | 5           | EPA 8240        | 10/20/95 | TG |          |  |
| Trichloroethene           | 540.   | μg/L    | 10   | 5           | EPA 8240        | 10/20/95 | TG |          |  |
| Dibromochloromethane      | 480.   | μg/L    | 10   | 5           | EPA 8240        | 10/20/95 | TG |          |  |
| 1,1,2-Trichloroethane     | 510.   | μg/L    | 10   | 5           | <b>EPA 8240</b> | 10/20/95 | TG |          |  |
| Benzene                   | 620.   | μg/L    | 10   | 5           | <b>EPA 8240</b> | 10/20/95 | TG |          |  |
| trans-1,3-Dichloropropene | 490.   | μg/L    | 10   | 5           | EPA 8240        | 10/20/95 | TG |          |  |
| Bronoform                 | 490.   | μg/L    | 10   | 5           | EPA 8240        | 10/20/95 | TG |          |  |
| 2,4,4-Trimethyl-2-pentene | 4700.  | μg/L    | 100. | 10          | <b>EPA 8240</b> | 10/20/95 | TG |          |  |
| 2,4,4-Trimethyl-1-pentene | 4400.  | μg/L    | 100. | 10          | EPA 8240        | 10/20/95 | TG |          |  |
| 4-Methyl-2-pentanone      | 8800.  | μg/L    | 100. | 15          | EPA 8240        | 10/20/95 | TG |          |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: CLIN-TN/STEVE MORROW SMITH/RICK SACKS PII/CHRIS SKILSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400



Lab Number: WL-1644-5 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION                | MATRIX       |       |             | SAMPLED BY |      |      | SAMPLED DATE RECEIVED |    |          |
|-----------------------------------|--------------|-------|-------------|------------|------|------|-----------------------|----|----------|
| GW-BOBR (UNFILIT/MS)              | Aqueous      |       | R. MEHALICK |            |      |      | 10/19/95              |    | 10/19/95 |
| PARAMETER                         | RESULT       | UNITS | DF          | *PQL       | METH | 000  | ANALYZED              | BY | NOTES    |
| 2-Hexanone                        | 300.         | μg/L  | 10          | 15         | EPA  | 8240 | 10/20/95              | TG |          |
| Tetrachloroethene                 | 530.         | μg/L  | 10          | 5          | EPA  | 8240 | 10/20/95              | TG |          |
| 1,1,2,2-Tetrachloroethane         | B560         | μg/L  | 10          | 5          | EPA  | 8240 | 10/20/95              | TG |          |
| Toluene                           | 20000.       | μg/L  | 100.        | 5          | EPA  | 8240 | 10/20/95              | TG |          |
| Chlorobenzene                     | <i>6</i> 80. | μg/L  | 10          | 5          | EPA  | 8240 | 10/20/95              | TG |          |
| Ethylbenzene                      | 770.         | μg/L  | 10          | 5          | EPA  | 8240 | 10/20/95              | TG |          |
| Styrene                           | 510.         | μg/L  | 10          | 5          | EPA  | 8240 | 10/20/95              | TG |          |
| Total Xylenes                     | 19000.       | μg/L  | 100.        | 5          | EPA  | 8240 | 10/20/95              | TG |          |
| 1,2-Dichloroethane-d4(% Recovery) | 105.         | *     | 10          |            | EPA  | 8240 | 10/20/95              | TG |          |
| Toluene-d8 (* Recovery)           | 101.         | *     | 10          |            | EPA  | 8240 | 10/20/95              | TG |          |
| p-Bromofluorobenzene (* Recovery) | 101.         | *     | 10          |            | EPA  | 8240 | 10/20/95              | TG |          |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: CLIN-TN/STEVE MORROW SMITH/RICK SACKS PIT/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400



Lab Number : WL-1644-6 Report Date: 11/06/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

#### REPORT OF ANALYTICAL RESULTS

Page 16 of 33

| SAMPLE DESCRIPTION              | MAC           | MATRIX    |     |          | SAMPLED BY |          |    | RECRIVED |  |
|---------------------------------|---------------|-----------|-----|----------|------------|----------|----|----------|--|
| GW-81D (UNFILIT)                | Aqu           | Aqueous   |     | R. MEHAL | ICK        | 10/19/95 |    | 10/19/95 |  |
| PARAMETER                       | RESULT        | UNITS     | DF  | *PQL     | METHOD     | ANALYZED | BY | NOTES    |  |
| TCL Volatile Organics +         | <del>,,</del> |           |     |          |            |          |    | 1,2      |  |
| Trimethylpentenes by USEPA 8240 |               |           |     |          |            |          |    |          |  |
| Chloromethane                   | <10.          | $\mu g/L$ | 1.0 | 10       | EPA 824    | 10/20/95 | LG |          |  |
| Bromomethane                    | <10.          | μg/L      | 1.0 | 10       | EPA 8240   | 10/20/95 | IG |          |  |
| Vinyl chloride                  | <10.          | μg/L      | 1.0 | 10       | EPA 8240   | 10/20/95 | LG |          |  |
| Chloroethane                    | <10.          | μg/L      | 1.0 | 10       | EPA 824    | 10/20/95 | IG |          |  |
| Methylene chloride              | JB3           | μg/L      | 1.0 | 10       | EPA 8240   | 10/20/95 | LG |          |  |
| Acetone                         | <15.          | μg/L      | 1.0 | 15       | EPA 8240   | 10/20/95 | LG |          |  |
| Carbon disulfide                | <10.          | μg/L      | 1.0 | 10       | EPA 8240   | 10/20/95 | IG |          |  |
| 1,1-Dichloroethene              | ⋖5.           | μg/L      | 1.0 | 5        | EPA 824    | 10/20/95 | LG |          |  |
| 1,1-Dichloroethane              | ⋖5.           | μg/L      | 1.0 | 5        | EPA 8240   | 10/20/95 | IG |          |  |
| Total 1,2-Dichloroethene        | ⋖5.           | μg/L      | 1.0 | 5        | EPA 824    | 10/20/95 | IG |          |  |
| Chloroform                      | ⋖5.           | μg/L      | 1.0 | 5        | EPA 8240   | 10/20/95 | LG |          |  |
| 1,2-Dichloroethane              | <5.           | μg/L      | 1.0 | 5        | EPA 8240   | 10/20/95 | IG |          |  |
| 2-Butanone                      | <15.          | μg/L      | 1.0 | 15       | EPA 8240   | 10/20/95 | IG |          |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: OLIN-TN/STEVE MORROW SMTTH/RICK SACKS PTT/CHRIS SELLSTONE

<sup>(1) &</sup>quot;J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

<sup>(2) &</sup>quot;B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.



Lab Number: WL-1644-6 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION        | MATRIX SAMPLED BY |         |     |           |                 | SAMPLED DATE RECEIV |          |       |  |  |
|---------------------------|-------------------|---------|-----|-----------|-----------------|---------------------|----------|-------|--|--|
| GW-81D (CNFILT)           | Aqu               | Aqueous |     | R. MEHALI | 10/19/95        |                     | 10/19/95 |       |  |  |
| PARAMETER                 | RESULT            | UNITS   | DF  | *PQL      | WEIHOD          | ANALYZED            | BY       | NOTES |  |  |
| 1,1,1-Trichloroethane     |                   | μg/L    | 1.0 | 5         | EPA 8240        | 10/20/95            | IG       |       |  |  |
| Carbon tetrachloride      | ⋖5.               | μg/L    | 1.0 | 5         | EPA 8240        | 10/20/95            | LG       |       |  |  |
| Vinyl acetate             | <15.              | μg/L    | 1.0 | 15        | EPA 8240        | 10/20/95            | IG       |       |  |  |
| Bromodichloromethane      | త.                | μg/L    | 1.0 | 5         | EPA 8240        | 10/20/95            | LG       |       |  |  |
| 1,2-Dichloropropane       | ⋖.                | μg/L    | 1.0 | 5         | EPA 8240        | 10/20/95            | LG       |       |  |  |
| cis-1,3-Dichloropropene   | <b>⋖</b> 5.       | μg/L    | 1.0 | 5         | EPA 8240        | 10/20/95            | LG       |       |  |  |
| Trichloroethene           | ⋖5.               | μg/L    | 1.0 | 5         | EPA 8240        | 10/20/95            | LG       |       |  |  |
| Dibromochloromethane      | ⋖5.               | μg/L    | 1.0 | 5         | EPA 8240        | 10/20/95            | IG       |       |  |  |
| 1,1,2-Trichloroethane     | ⋖5.               | μg/L    | 1.0 | 5         | EPA 8240        | 10/20/95            | IG       |       |  |  |
| Benzene                   | ⋖5.               | μg/L    | 1.0 | 5         | EPA 8240        | 10/20/95            | IG       |       |  |  |
| trans-1,3-Dichloropropene | ⋖5.               | μg/L    | 1.0 | 5         | <b>EPA 8240</b> | 10/20/95            | IG       |       |  |  |
| Bronoform                 | ⋖5.               | μg/L    | 1.0 | 5         | <b>EPA 8240</b> | 10/20/95            | LG       |       |  |  |
| 2,4,4-Trimethyl-2-pentene | <10.              | μg/L    | 1.0 | 10        | <b>EPA 8240</b> | 10/20/95            | LG       |       |  |  |
| 2,4,4-Trimethyl-1-pentene | <10.              | μg/L    | 1.0 | 10        | EPA 8240        | 10/20/95            | LG       |       |  |  |
| 4-Methyl-2-pentanone      | <15.              | μg/L    | 1.0 | 15        | EPA 8240        | 10/20/95            | LG       |       |  |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp (dw) /jfg/lag/sra

CC: CLIN-TN/STEVE MORROW SMITH/RICK SACKS PIT/CHRIS SELLSTONE



Lab Number: WL-1644-6 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

#### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION                | MAT        | RIX   |     | SAMPLED BY  | SAMPLED DA | ATE RECEIVED |
|-----------------------------------|------------|-------|-----|-------------|------------|--------------|
| GW-81D (UNFILIT)                  | Aqueous    |       |     | R. MEHALICK | 10/19/99   | 5 10/19/95   |
| PARAMETER                         | RESULT     | UNITS | DF  | *PQL METHOD | ANALYZED   | BY NOTES     |
| 2-Hexanone                        | <15.       | μg/L  | 1.0 | 15 EPA 8240 | 10/20/95   | IG           |
| Tetrachloroethene                 | ⋖.         | μg/L  | 1.0 | 5 EPA 8240  | 10/20/95   | <b>LG</b>    |
| 1,1,2,2-Tetrachloroethane         | ⋖.         | μg/L  | 1.0 | 5 EPA 8240  | 10/20/95   | <b>LG</b>    |
| Toluene                           | <b>J</b> 3 | μg/L  | 1.0 | 5 KPA 8240  | 10/20/95   | IG           |
| Chlorobenzene                     | <5.        | μg/L  | 1.0 | 5 EPA 8240  | 10/20/95   | IG           |
| Ethylbenzene                      | ⋖5.        | μg/L  | 1.0 | 5 KPA 8240  | 10/20/95   | <b>LG</b>    |
| Styrene                           | ⋖5.        | μg/L  | 1.0 | 5 EPA 8240  | 10/20/95   | IG           |
| Total Xylenes                     | ⋖5.        | μg/L  | 1.0 | 5 EPA 8240  | 10/20/95   | IG           |
| 1,2-Dichloroethane-d4(% Recovery) | 101.       | ¥     | 1.0 | EPA 8240    | 10/20/95   | IG           |
| Toluene-d8 (% Recovery)           | 100.       | *     | 1.0 | EPA 8240    | 10/20/95   | IG           |
| p-Bromofluorobenzene (* Recovery) | 96.        | *     | 1.0 | EPA 8240    | 10/20/95   | IG           |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PIT/CHRIS SKILSTONE



Lab Number : WL-1644-7

PO No.

Report Date: 11/06/95

: SE-CH-827-VAR-C

OLIN CHEMICALS
51 EAMES STREET

CLIENT: DON CAMERON

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION              | MATRIX SAMPLED BY |       |             |      | BY              | SAMPLED DATE REC |    |          |  |
|---------------------------------|-------------------|-------|-------------|------|-----------------|------------------|----|----------|--|
| GW-81BR (UNFILT)                | Aqueous           |       | R. MEHALICK |      |                 | 10/19/95         |    | 10/19/95 |  |
| PARAMETER                       | RESULT            | UNITS | DF          | *PQL | METHOD          | ANALYZED         | BY | NOTES    |  |
| TCL Volatile Organics +         |                   |       |             |      |                 |                  |    | 1        |  |
| Trimethylpentenes by USEPA 8240 |                   |       |             |      |                 |                  |    |          |  |
| Chloromethane                   | <10.              | μg/L  | 1.0         | 10   | EPA 8240        | 10/20/95         | LG |          |  |
| Bronomethane                    | <10.              | μg/L  | 1.0         | 10   | EPA 8240        | 10/20/95         | LG |          |  |
| Vinyl chloride                  | <10.              | μg/L  | 1.0         | 10   | EPA 8240        | 10/20/95         | LG |          |  |
| Chloroethane                    | <10.              | μg/L  | 1.0         | 10   | EPA 8240        | 10/20/95         | IG |          |  |
| Methylene chloride              | <10.              | μg/L  | 1.0         | 10   | EPA 8240        | 10/20/95         | LG |          |  |
| Acetone                         | <15.              | μg/L  | 1.0         | 15   | EPA 8240        | 10/20/95         | LG |          |  |
| Carbon disulfide                | <10.              | μg/L  | 1.0         | 10   | EPA 8240        | 10/20/95         | IG |          |  |
| 1,1-Dichloroethene              | <b>త</b> .        | μg/L  | 1.0         | 5    | EPA 8240        | 10/20/95         | IG |          |  |
| 1,1-Dichloroethane              | <b>⋖</b> .        | μg/L  | 1.0         | 5    | EPA 8240        | 10/20/95         | LG |          |  |
| Total 1,2-Dichloroethene        | ⋖.                | μg/L  | 1.0         | 5    | EPA 8240        | 10/20/95         | LG |          |  |
| Chlaroform                      | ⋖5.               | μg/L  | 1.0         | 5    | EPA 8240        | 10/20/95         | LG |          |  |
| 1,2-Dichloroethane              | ⋖.                | μg/L  | 1.0         |      |                 | 10/20/95         | LG |          |  |
| 2-Butanone                      | <15.              | μg/L  | 1.0         | 15   | <b>EPA</b> 8240 | 10/20/95         | LG |          |  |
| 1,1,1-Trichloroethane           | <b>ర</b> .        | μg/L  | 1.0         |      |                 | 10/20/95         | IG |          |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: CLIN-TN/STEVE MORROW SMITH/RICK SACKS PIT/CHRIS SELLSTONE



CLIENT: DON CAMERON

## REPORT OF LABORATORY ANALYSIS

Lab Number: WL-1644-7 Report Date: 11/06/95

PO No.

: SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION        | MAI         | MATRIX SAMPLED BY   |     |      |          |          | SAMPLED DATE |       |  |
|---------------------------|-------------|---------------------|-----|------|----------|----------|--------------|-------|--|
| GW-81BR (UNFILT)          | Aqu         | Aqueous R. MEHALICK |     |      | 10/19/95 |          | 10/19/95     |       |  |
| PARAMETER                 | RESULT      | UNITS               | DF  | *PQL | METHOD   | ANALYZED | BY           | NOTES |  |
| Carbon tetrachloride      | <5.         | μg/L                | 1.0 | 5    | EPA 8240 | 10/20/95 | LG           |       |  |
| Vinyl acetate             | <15.        | μg/L                | 1.0 | 15   | EPA 8240 | 10/20/95 | LG           |       |  |
| Bromodichloromethane      | ⋖5.         | μg/L                | 1.0 | 5    | EPA 8240 | 10/20/95 | LG           |       |  |
| 1,2-Dichloropropane       | చ్.         | μg/L                | 1.0 | 5    | EPA 8240 | 10/20/95 | LG           |       |  |
| cis-1,3-Dichloropropene   | <b>ర</b> .  | μg/L                | 1.0 | 5    | EPA 8240 | 10/20/95 | LG           |       |  |
| Trichloroethene           | ⋖5.         | μg/L                | 1.0 | 5    | EPA 8240 | 10/20/95 | IG           |       |  |
| Dibramochloramethane      | <b>త</b> .  | μg/L                | 1.0 | 5    | EPA 8240 | 10/20/95 | IG           |       |  |
| 1,1,2-Trichloroethane     | ⋖.          | μg/L                | 1.0 | 5    | EPA 8240 | 10/20/95 | IG           |       |  |
| Benzene                   | ර.          | μg/L                | 1.0 | 5    | EPA 8240 | 10/20/95 | IG           |       |  |
| trans-1,3-Dichloropropene | ⋖.          | μg/L                | 1.0 | 5    | EPA 8240 | 10/20/95 | IG           |       |  |
| Bromoform                 | <b>45</b> . | μg/L                | 1.0 | 5    | EPA 8240 | 10/20/95 | IG           |       |  |
| 2,4,4-Trimethyl-2-pentene | <10.        | μg/L                | 1.0 | 10   | EPA 8240 | 10/20/95 | LG           |       |  |
| 2,4,4-Trimethyl-1-pentene | <10.        | μg/L                | 1.0 | 10   | EPA 8240 | 10/20/95 | LG           |       |  |
| 4-Methyl-2-pentanone      | <15.        | μg/L                | 1.0 | 15   | EPA 8240 | 10/20/95 | LG           |       |  |
| 2-Hexanone                | <15.        | μg/L                | 1.0 | 15   | EPA 8240 | 10/20/95 | LG           |       |  |
| Tetrachloroethene         | <5.         | μg/L                | 1.0 | 5    | EPA 8240 | 10/20/95 | IG           |       |  |

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11/06/95

LJO/jcbgbp (dw) /jfg/lag/sra

CC: CLIN-TN/STEVE MORROW SMITH/RICK SACKS PII/CHRIS SELLSTONE



Lab Number: WL-1644-7

PO No.

Report Date: 11/06/95 : SE-CH-827-VAR-C

CLIN CHEMICALS

CLIENT: DON CAMERON

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION                | MATRIX SAMPLED BY |       |     |          | SAMPLED I | RECEIVED |          |       |
|-----------------------------------|-------------------|-------|-----|----------|-----------|----------|----------|-------|
| GW-81BR (UNFILT)                  | Aqu               | ecus  |     | R. MEHAL | 10/19/95  |          | 10/19/95 |       |
| PARAMETER                         | RESULT            | UNITS | DF  | *PQL     | METHOD    | ANALYZED | BY       | NOTES |
| 1,1,2,2-Tetrachloroethane         | ح <u>-</u>        | μg/L  | 1.0 | 5        | EPA 8240  | 10/20/95 | LG       |       |
| Toluene                           | 9.                | μg/L  | 1.0 | 5        | EPA 8240  | 10/20/95 | LG       |       |
| Chlorobenzene                     | ⋖5.               | μg/L  | 1.0 | 5        | EPA 8240  | 10/20/95 | LG       |       |
| Ethylbenzene                      | <5.               | μg/L  | 1.0 | 5        | EPA 8240  | 10/20/95 | IG       |       |
| Styrene                           | <5.               | μg/L  | 1.0 | 5        | EPA 8240  | 10/20/95 | IG       |       |
| Total Xylenes                     | Л                 | μg/L  | 1.0 | 5        | EPA 8240  | 10/20/95 | LG       |       |
| 1,2-Dichloroethane-d4(* Recovery) | 97.               | *     | 1.0 |          | EPA 8240  | 10/20/95 | LG       |       |
| Toluene-d8 (% Recovery)           | 97.               | *     | 1.0 |          | EPA 8240  | 10/20/95 | IG       |       |
| p-Bromofluorobenzene (* Recovery) | 100.              | *     | 1.0 |          | EPA 8240  | 10/20/95 | LG       |       |

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11/06/95

LJO/jcbgbp (dw) /jfg/lag/sra

CC: CLIN-TN/STEVE MORROW SMITH/RICK SACKS PTI/CHRIS SELLSTONE



Lab Number: WL-1644-8 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

#### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION              | IAM            | MATRIX SAMPLED BY |     |          | SAMPLED D | RECEIVED |          |       |
|---------------------------------|----------------|-------------------|-----|----------|-----------|----------|----------|-------|
| CW-65BR (UNFILT)                | Aqu            | ecus              |     | R. MEHAL | ICK       | 10/19/9  | 10/19/95 |       |
| PARAMETER                       | RESULT         | UNITS             | DF  | *PQL     | METHOD    | ANALYZED | BY       | NOTES |
| TCL Volatile Organics +         |                |                   |     |          |           |          |          | 1     |
| Trimethylpentenes by USEPA 8240 |                | 4-                |     |          |           |          |          |       |
| Chloromethane                   | <10.           | μg/L              | 1.0 |          |           | 10/20/95 | IG       |       |
| Bromomethane                    | <10.           | μg/L              | 1.0 | 10       | EPA 8240  | 10/20/95 | LG       |       |
| Vinyl chloride                  | <10.           | μg/L              | 1.0 | 10       | EPA 8240  | 10/20/95 | IG       |       |
| Chloroethane                    | <10.           | μg/L              | 1.0 | 10       | EPA 8240  | 10/20/95 | IG       |       |
| Methylene chloride              | <10.           | μg/L              | 1.0 | 10       | EPA 8240  | 10/20/95 | IG       |       |
| Acetone                         | ദ              | μg/L              | 1.0 | 15       | EPA 8240  | 10/20/95 | IG       |       |
| Carbon disulfide                | <10.           | μg/L              | 1.0 | 10       | EPA 8240  | 10/20/95 | IG       |       |
| 1,1-Dichloroethene              | <5.            | μg/L              | 1.0 | 5        | EPA 8240  | 10/20/95 | IG       |       |
| 1,1-Dichloroethane              | <b>&lt;</b> 5. | μg/L              | 1.0 | 5        | EPA 8240  | 10/20/95 | LG       |       |
| Total 1,2-Dichloroethene        | <5.            | μg/L              | 1.0 | 5        | EPA 8240  | 10/20/95 | LG       |       |
| Chlaroform                      | <5.            | μg/L              | 1.0 | 5        | EPA 8240  | 10/20/95 | IG       |       |
| 1,2-Dichloroethane              | <5.            | μg/L              | 1.0 |          |           | 10/20/95 | IG       |       |
| 2-Butanone                      | <15.           | μg/L              | 1.0 |          |           | 10/20/95 | LG       |       |
| 1,1,1-Trichloroethane           | ح5.            | µg/⊥              | 1.0 |          |           | 10/20/95 |          |       |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PII/CHRIS SELLSTONE



Lab Number: WL-1644-8
Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

#### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION        | MAC                     | MATRIX SAMPLED BY |          |      |          |          | SAMPLED DATE |       |  |
|---------------------------|-------------------------|-------------------|----------|------|----------|----------|--------------|-------|--|
| CW-65BR (UNFILT)          | IT) Aqueous R. MEHALICK |                   | 10/19/95 |      | 10/19/95 |          |              |       |  |
| PARAMETER                 | RESULT                  | UNITS             | DF       | *PQL | METHOD   | ANALYZED | BY           | NOTES |  |
| Carbon tetrachloride      | <5.                     | μg/L              | 1.0      | 5    | EPA 8240 | 10/20/95 | LG           |       |  |
| Vinyl acetate             | <15.                    | μg/L              | 1.0      | 15   | EPA 8240 | 10/20/95 | LG           |       |  |
| Bromodichloromethane      | <5.                     | μg/L              | 1.0      | 5    | EPA 8240 | 10/20/95 | LG           |       |  |
| 1,2-Dichloropropane       | <5.                     | μg/L              | 1.0      | 5    | EPA 8240 | 10/20/95 | IG           |       |  |
| cis-1,3-Dichloropropene   | <5.                     | μg/L              | 1.0      | 5    | EPA 8240 | 10/20/95 | LG           |       |  |
| Trichloroethene           | <5.                     | μg/L              | 1.0      | 5    | EPA 8240 | 10/20/95 | IG           |       |  |
| Dibromochloromethane      | <5.                     | μg/L              | 1.0      | 5    | EPA 8240 | 10/20/95 | LG           |       |  |
| 1,1,2-Trichloroethane     | <5.                     | μg/L              | 1.0      | 5    | KPA 8240 | 10/20/95 | LG           |       |  |
| Benzene                   | <5.                     | μg/L              | 1.0      | 5    | EPA 8240 | 10/20/95 | LG           |       |  |
| trans-1,3-Dichloropropene | < <b>5</b> .            | μg/L              | 1.0      | 5    | EPA 8240 | 10/20/95 | LG           |       |  |
| Branoform                 | <5.                     | μg/L              | 1.0      | 5    | EPA 8240 | 10/20/95 | LG           |       |  |
| 2,4,4-Trimethyl-2-pentene | <10.                    | μg/L              | 1.0      | 10   | EPA 8240 | 10/20/95 | LG           |       |  |
| 2,4,4-Trimethyl-1-pentene | <10.                    | μg/L              | 1.0      | 10   | EPA 8240 | 10/20/95 | LG           |       |  |
| 4-Methyl-2-pentanone      | <15.                    | μg/L              | 1.0      | 15   | EPA 8240 | 10/20/95 | İG           |       |  |
| 2-Hexanone                | <15.                    | μg/L              | 1.0      | 15   | EPA 8240 | 10/20/95 | LG           |       |  |
| Tetrachloroethene         | <5.                     | μg/L              | 1.0      | 5    | EPA 8240 | 10/20/95 | IG           |       |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PTI/CHRIS SELLSTONE



Lab Number: WL-1644-8 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION                | MAI    | MATRIX SAMPLED BY |     |          |          | SAMPLED I | RECEIVED |       |
|-----------------------------------|--------|-------------------|-----|----------|----------|-----------|----------|-------|
| GW-65BR (UNFILT)                  | Aqı    | ecus              |     | R. MEHAI | 10/19/95 |           | 10/19/95 |       |
| PARAMETER                         | RESULT | UNITS             | DF  | *PQL     | WEITHOD  | ANALYZED  | BY       | NOTES |
| 1,1,2,2-Tetrachloroethane         | <5.    | μg/L              | 1.0 | 5        | EPA 8240 | 10/20/95  | LG       |       |
| Toluene                           | 6.     | μg/L              | 1.0 | 5        | KPA 8240 | 10/20/95  | LG       |       |
| Chlorobenzene                     | <5.    | μg/L              | 1.0 | 5        | EPA 8240 | 10/20/95  | IG       |       |
| Ethylbenzene                      | <5.    | μg/L              | 1.0 | 5        | EPA 8240 | 10/20/95  | LG       |       |
| Styrene                           | <5.    | μg/L              | 1.0 | 5        | EPA 8240 | 10/20/95  | IG       |       |
| Total Xylenes                     | JI     | μg/L              | 1.0 | 5        | EPA 8240 | 10/20/95  | IG       |       |
| 1,2-Dichloroethane-d4(% Recovery) | 96.    | *                 | 1.0 |          | EPA 8240 | 10/20/95  | IG       |       |
| Toluene-d8 (* Recovery)           | 99.    | ¥                 | 1.0 |          | EPA 8240 | 10/20/95  | LG       |       |
| p-Bramofluorobenzene (* Recovery) | 96.    | *                 | 1.0 |          | EPA 8240 | 10/20/95  | IG       |       |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: CLIN-IN/STEVE MORROW SMITH/RICK SACKS PII/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400



CLIENT: DON CAMERON

## **REPORT OF LABORATORY ANALYSIS**

Lab Number : WL-1644-9 Report Date: 11/06/95

PO No.

: SE-CH-827-VAR-C

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

#### REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION              | MAI            | MAIRIX SAMPLED BY   |     |        |          |          | SAMPLED DATE RECEIVED |       |  |
|---------------------------------|----------------|---------------------|-----|--------|----------|----------|-----------------------|-------|--|
| FIELD REP (UNFILIT)             | Aqu            | Aqueous R. MEHALICK |     |        | 10/19/95 |          | 10/19/95              |       |  |
| PARAMETER                       | RESULT         | UNITS               | DF  | *PQL 1 | WEIHOD   | ANALYZED | BY                    | NOTES |  |
| TCL Volatile Organics +         | ·····          |                     |     |        |          |          |                       | 1     |  |
| Trimethylpentenes by USEPA 8240 |                |                     |     |        |          |          |                       |       |  |
| Chloromethane                   | <10.           | μg/L                | 1.0 | 10 H   | EPA 8240 | 10/20/95 | IG                    |       |  |
| Brommethane                     | <10.           | μg/L                | 1.0 | 10 H   | EPA 8240 | 10/20/95 | LG                    |       |  |
| Vinyl chloride                  | <10.           | μg/L                | 1.0 | 10 I   | EPA 8240 | 10/20/95 | IG                    |       |  |
| Chloroethane                    | <10.           | μg/L                | 1.0 | 10 H   | EPA 8240 | 10/20/95 | IG                    |       |  |
| Methylene chloride              | <10.           | μg/L                | 1.0 | 10 F   | EPA 8240 | 10/20/95 | LG                    |       |  |
| Acetone                         | <15.           | μg/L                | 1.0 | 15 E   | EPA 8240 | 10/20/95 | LG                    |       |  |
| Carbon disulfide                | <10.           | μg/L                | 1.0 | 10 E   | EPA 8240 | 10/20/95 | IG                    |       |  |
| 1,1-Dichloroethene              | <b>&lt;</b> 5. | μg/L                | 1.0 | 5 I    | EPA 8240 | 10/20/95 | IG                    |       |  |
| 1,1-Dichloroethane              | <5.            | μg/L                | 1.0 | 5 I    | EPA 8240 | 10/20/95 | LG                    |       |  |
| Total 1,2-Dichloroethene        | <5.            | μg/L                | 1.0 |        |          | 10/20/95 | IG                    |       |  |
| Chloroform                      | <5.            | μg/L                | 1.0 | 5 E    | EPA 8240 | 10/20/95 | LG                    |       |  |
| 1,2-Dichloroethane              | <5.            | μg/L                | 1.0 |        |          | 10/20/95 | IG                    |       |  |
| 2-Butanone                      | <15.           | μg/L                | 1.0 |        |          | 10/20/95 | IG                    |       |  |
| 1,1,1-Trichloroethane           | <5.            | μg/L                | 1.0 |        |          | 10/20/95 | IG                    |       |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PIT/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400



Lab Number: WL-1644-9 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

## REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION        | MAI         | MATRIX SAMPLED BY |     |          | BY              | SAMPLED D | RECEIVED |          |
|---------------------------|-------------|-------------------|-----|----------|-----------------|-----------|----------|----------|
| FIELD REP (UNFILT)        | Aqu         | ecus              |     | R. MEHAL | ICK             | 10/19/9   | 5        | 10/19/95 |
| PARAMETER                 | RESULT      | UNITS             | DF  | *PQL     | METHOD          | ANALYZED  | BY       | NOTES    |
| Carbon tetrachloride      | <5.         | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95  | IG       |          |
| Vinyl acetate             | <15.        | μg/L              | 1.0 | 15       | EPA 8240        | 10/20/95  | IG       |          |
| Branodichloramethane      | <5.         | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95  | LG       |          |
| 1,2-Dichloropropane       | <5 <i>.</i> | μg/L              | 1.0 | 5        | <b>EPA 8240</b> | 10/20/95  | LG       |          |
| cis-1,3-Dichloropropene   | <5.         | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95  | LG       |          |
| Trichloroethene           | <5.         | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95  | LG       |          |
| Dibromochloromethane      | <5.         | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95  | LG       |          |
| 1,1,2-Trichloroethane     | <5.         | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95  | LG       | •        |
| Benzene                   | <5.         | μg/L              | 1.0 | 5        | KPA 8240        | 10/20/95  | IG       |          |
| trans-1,3-Dichloropropene | <5.         | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95  | LG       |          |
| Bronoform                 | <5.         | μg/L              | 1.0 | 5        | <b>EPA 8240</b> | 10/20/95  | IG       |          |
| 2,4,4-Trimethyl-2-pentene | <10.        | μg/L              | 1.0 | 10       | EPA 8240        | 10/20/95  | IG       |          |
| 2,4,4-Trimethyl-1-pentene | <10.        | μg/L              | 1.0 | 10       | EPA 8240        | 10/20/95  | LG       |          |
| 4-Methyl-2-pentanone      | <15.        | μg/L              | 1.0 | 15       | EPA 8240        | 10/20/95  | LG       |          |
| 2-Hexanone                | <15.        | μg/L              | 1.0 | 15       | <b>KPA 8240</b> | 10/20/95  | LG       |          |
| Tetrachloroethene         | ⋖5.         | μg/L              | 1.0 | 5        | KPA 8240        | 10/20/95  | IG       |          |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jchghp (dw) /jfg/lag/sra

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PTI/CHRIS SELLSTONE



Lab Number: WL-1644-9 Report Date: 11/06/95

PO No.

: SE-CH-827-VAR-C

CLIENT: DON CAMERON

OLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 27 of 33

| SAMPLE DESCRIPTION                | MATRIX SAMPLED BY |                   |     |          | SAMPLED D | RECEIVED |    |          |
|-----------------------------------|-------------------|-------------------|-----|----------|-----------|----------|----|----------|
| FIELD REP (UNFILT)                | Aqu               | ecus              |     | R. MEHAI | TCK       | 10/19/95 |    | 10/19/95 |
| PARAMETER                         | RESULT            | UNITS             | DF  | *PQL     | METHOD    | ANALYZED | BY | NOTES    |
| 1,1,2,2-Tetrachloroethane         | <5.               | μg/L              | 1.0 | 5        | EPA 8240  | 10/20/95 | LG |          |
| Toluene                           | ദ                 | μg/L              | 1.0 | 5        | EPA 8240  | 10/20/95 | LG |          |
| Chlorobenzene                     | <5.               | μg/L              | 1.0 | 9        | EPA 8240  | 10/20/95 | LG |          |
| Ethylbenzene                      | <5.               | $\mu {f g}/{f L}$ | 1.0 | 5        | EPA 8240  | 10/20/95 | LG |          |
| Styrene                           | <5.               | μg/L              | 1.0 | 5        | EPA 8240  | 10/20/95 | LG |          |
| Total Xylenes                     | <5.               | μg/L              | 1.0 | 5        | EPA 8240  | 10/20/95 | IG |          |
| 1,2-Dichloroethane-d4(% Recovery) | 97.               | ¥                 | 1.0 |          | EPA 8240  | 10/20/95 | LG |          |
| Toluene-d8 (% Recovery)           | 99.               | ¥                 | 1.0 |          | EPA 8240  | 10/20/95 | LG |          |
| p-Bromofluorobenzene (* Recovery) | 98.               | ŧ                 | 1.0 |          | EPA 8240  | 10/20/95 | IG |          |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: CLIN-TN/STEVE MORROW SMITH/RICK SACKS PIT/CHRIS SELLSTONE



CLIENT: DON CAMERON

# REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-10 Report Date: 11/06/95

PO No.

:e: 11/06/95 : SE-CH-827-VAR-C

CLIN CHEMICALS 51 EAMES STREET

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION              | MAI            | MATRIX SAMPLED BY   |     |          |              | SAMPLED DATE RECET |          |       |
|---------------------------------|----------------|---------------------|-----|----------|--------------|--------------------|----------|-------|
| GW-300 (UNFILIT)                | Aqu            | Aqueous R. MEHALICK |     |          | 10/19/95     |                    | 10/19/95 |       |
| PARAMETER                       | RESULT         | UNITS               | DF  | *PQL MEI | <b>100</b> 0 | ANALYZED           | BY       | NOTES |
| TCL Volatile Organics +         |                |                     |     |          |              |                    |          | 1,2   |
| Trimethylpentenes by USEPA 8240 |                |                     |     |          |              |                    |          |       |
| Chloromethane                   | <10.           | μg/L                | 1.0 | 10 EPA   | 8240         | 10/20/95           | IG       |       |
| Bromomethane                    | <10.           | μg/L                | 1.0 | 10 EPA   | 8240         | 10/20/95           | IG       |       |
| Vinyl chloride                  | <10.           | μg/L                | 1.0 | 10 EPA   | 8240         | 10/20/95           | LG       |       |
| Chloroethane                    | <10.           | μg/L                | 1.0 | 10 EPA   | 8240         | 10/20/95           | IG       |       |
| Methylene chloride              | JB2            | μg/L                | 1.0 | 10 EPA   | 8240         | 10/20/95           | IG       |       |
| Acetone                         | 20.            | μg/L                | 1.0 | 15 EPA   | 8240         | 10/20/95           | IG       |       |
| Carbon disulfide                | <10.           | μg/L                | 1.0 | 10 EPA   | 8240         | 10/20/95           | LG       |       |
| 1,1-Dichlorcethene              | <5.            | μg/L                | 1.0 | 5 EPA    | 8240         | 10/20/95           | IG       |       |
| 1,1-Dichloroethane              | <5.            | μg/L                | 1.0 | 5 EPA    | 8240         | 10/20/95           | LG       |       |
| Total 1,2-Dichloroethene        | <5.            | μg/L                | 1.0 | 5 EPA    | 8240         | 10/20/95           | LG       |       |
| Chloroform                      | <5.            | μg/L                | 1.0 | 5 EPA    | 8240         | 10/20/95           | LG       |       |
| 1,2-Dichloroethane              | <b>&lt;</b> 5. | μg/L                | 1.0 | 5 EPA    | 8240         | 10/20/95           | LG       |       |
| 2-Butanone                      | J1             | μg/L                | 1.0 | 15 EPA   | 8240         | 10/20/95           | LG       |       |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp (dw) /jfg/lag/sra

CC: OLIN-TN/STEVE MORROW SMTTH/RICK SACKS PTT/CHRIS SELLSTONE

<sup>(1) &</sup>quot;J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

<sup>(2) &</sup>quot;B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.



Lab Number : WL-1644-10 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON OLIN CHEMICALS

51 EAMES STREET WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

Page 29 of 33

| SAMPLE DESCRIPTION        | MAT            | MATRIX SAMPLED BY |                  |             |                                       | K RECEIVED |
|---------------------------|----------------|-------------------|------------------|-------------|---------------------------------------|------------|
| GW-300 (UNFILIT)          | Aqu            | ieous             | eous R. MEHALICK |             | 10/19/95                              | 10/19/95   |
| PARAMETER                 | RESULT         | UNITS             | DF               | *PQL METHOD | ANALYZED B                            | Y NOTES    |
| 1,1,1-Trichloroethane     | <5.            | μg/L              | 1.0              | 5 EPA 8240  | 10/20/95 L                            | G          |
| Carbon tetrachloride      | <b>&lt;</b> 5. | μg/L              | 1.0              | 5 EPA 8240  | 10/20/95 L                            | G          |
| Vinyl acetate             | <15.           | μg/L              | 1.0              | 15 EPA 8240 | 10/20/95 L                            | G          |
| Bromodichloromethane      | <b>&lt;</b> 5. | $\mu g/L$         | 1.0              | 5 EPA 8240  | 10/20/95 L                            | G          |
| 1,2-Dichloropropane       | <b>&lt;</b> 5. | μg/L              | 1.0              | 5 EPA 8240  | 10/20/95 L                            | G          |
| cis-1,3-Dichloropropene   | <b>&lt;</b> 5. | μg/L              | 1.0              | 5 EPA 8240  | 10/20/95 L                            | G          |
| Trichloroethene           | л              | μg/L              | 1.0              | 5 EPA 8240  | 10/20/95 I                            | G          |
| Dibronochloromethane      | <b>&lt;</b> 5. | μg/L              | 1.0              | 5 EPA 8240  | 10/20/95 L                            | G          |
| 1,1,2-Trichloroethane     | <5.            | μg/L              | 1.0              | 5 EPA 8240  | 10/20/95 I                            | G          |
| Benzene                   | <5.            | μg/L              | 1.0              | 5 EPA 8240  | 10/20/95 L                            | G          |
| trans-1,3-Dichloropropene | <5 <i>.</i>    | μg/L              | 1.0              | 5 EPA 8240  | 10/20/95 L                            | G          |
| Bromoform                 | <5 <i>.</i>    | μg/L              | 1.0              | 5 EPA 8240  | 10/20/95 L                            | G          |
| 2,4,4-Trimethyl-2-pentene | <10.           | μg/L              | 1.0              | 10 EPA 8240 | 10/20/95 L                            | G          |
| 2,4,4-Trimethyl-1-pentene | <10.           | μg/L              | 1.0              | 10 EPA 8240 | 10/20/95 L                            | G          |
| 4-Methyl-2-pentanone      | <15.           | μg/L              | 1.0              |             | · · · · · · · · · · · · · · · · · · · | G          |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PTI/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400



Lab Number : WL-1644-10

PO No.

Report Date: 11/06/95 : SE-CH-827-VAR-C

OLIN CHEMICALS 51 EAMES STREET

CLIENT: DON CAMERON

WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION                | MAI            | RIX                 |     | SAMPLED BY SAMPLED DATE RECET |             |          |    |          |
|-----------------------------------|----------------|---------------------|-----|-------------------------------|-------------|----------|----|----------|
| GW-300 (UNFILIT)                  | Aqu            | Aqueous R. MEHALICK |     |                               |             | 10/19/95 |    | 10/19/95 |
| PARAMETER                         | RESULT         | UNITS               | DF  | *PQL METH                     | <b>10</b> 0 | ANALYZED | BY | NOTES    |
| 2-Hexanone                        | <15.           | μg/L                | 1.0 | 15 EPA                        | 8240        | 10/20/95 | LG |          |
| Tetrachloroethene                 | <b>&lt;</b> 5. | μg/L                | 1.0 | 5 EPA                         | 8240        | 10/20/95 | IG |          |
| 1,1,2,2-Tetrachloroethane         | <5.            | μg/L                | 1.0 | 5 EPA                         | 8240        | 10/20/95 | LG |          |
| Toluene                           | 8.             | μg/L                | 1.0 | 5 EPA                         | 8240        | 10/20/95 | LG |          |
| Chlorobenzene                     | <5.            | μg/L                | 1.0 | 5 EPA                         | 8240        | 10/20/95 | IG |          |
| Ethylbenzene                      | <5.            | μg/L                | 1.0 | 5 EPA                         | 8240        | 10/20/95 | LG |          |
| Styrene                           | <5.            | μg/L                | 1.0 | 5 EPA                         | 8240        | 10/20/95 | LG |          |
| Total Xylenes                     | <5.            | μg/L                | 1.0 | 5 KPA                         | 8240        | 10/20/95 | LG |          |
| 1,2-Dichloroethane-d4(% Recovery) | 97.            | *                   | 1.0 | EPA                           | 8240        | 10/20/95 | IG |          |
| Toluene-d8 (% Recovery)           | 99.            | *                   | 1.0 | EPA                           | 8240        | 10/20/95 | IG |          |
| p-Bromofluorobenzene (* Recovery) | 98.            | ¥                   | 1.0 | EPA                           | 8240        | 10/20/95 | IG |          |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect samplespecific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PTI/CHRIS SELLSTONE



Lab Number : WL-1644-11 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS 51 EAMES STREET WILMINGTON, MA 01887

## REPORT OF ANALYTICAL RESULTS

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| SAMPLE DESCRIPTION              | MAI         | MATRIX SAMPLED BY |     |          | BY              | SAMPLED D | RECEIVED |          |
|---------------------------------|-------------|-------------------|-----|----------|-----------------|-----------|----------|----------|
| TRIP BLANK                      | Aqu         | ecus              |     | R. MEHAL | ICK             | 10/19/95  |          | 10/19/95 |
| PARAMETER                       | RESULT      | UNITS             | DF  | *PQL     | METHOD          | ANALYZED  | BY       | NOTES    |
| TCL Volatile Organics +         |             |                   |     |          |                 |           |          | 1,2      |
| Trimethylpentenes by USEPA 8240 |             |                   |     |          |                 |           |          |          |
| Chloromethane                   | <10.        | μg/L              | 1.0 | 10       | <b>EPA</b> 8240 | 10/20/95  | LG       |          |
| Bromomethane                    | <10.        | μg/L              | 1.0 | 10       | EPA 8240        | 10/20/95  | IG       |          |
| Vinyl chloride                  | <10.        | μg/L              | 1.0 | 10       | EPA 8240        | 10/20/95  | IG       |          |
| Chloroethane                    | <10.        | μg/L              | 1.0 | 10       | EPA 8240        | 10/20/95  | LG       |          |
| Methylene chloride              | JB2         | μg/L              | 1.0 | 10       | EPA 8240        | 10/20/95  | IG       |          |
| Acetone                         | <15.        | μg/L              | 1.0 | 15       | EPA 8240        | 10/20/95  | LG       |          |
| Carbon disulfide                | <10.        | μg/L              | 1.0 | 10       | EPA 8240        | 10/20/95  | LG       |          |
| 1,1-Dichloroethene              | ර.          | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95  | LG       |          |
| 1,1-Dichloroethane              | <b>45</b> . | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95  | LG       |          |
| Total 1,2-Dichloroethene        | <b>5</b> .  | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95  | LG       |          |
| Chloroform                      | ර.          | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95  | IG       |          |
| 1,2-Dichloroethane              | <b>4</b> 5. | μg/L              | 1.0 | 5        | EPA 8240        | 10/20/95  | IG       |          |
| 2-Butanone                      | <15.        | μg/L              | 1.0 |          |                 | 10/20/95  | IG       |          |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PII/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400

<sup>(1) &</sup>quot;J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

<sup>(2) &</sup>quot;B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.



Lab Number: WL-1644-11 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

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| AMPLE DESCRIPTION         | MATRIX         |       |     | SAMPLED BY  | SAMPLED DATE RECEIVED |          |  |
|---------------------------|----------------|-------|-----|-------------|-----------------------|----------|--|
| TRIP BLANK                | Aqueous        |       |     | R. MEHALICK | 10/19/95              | 10/19/95 |  |
| ARAMETER                  | RESULT         | UNITS | DF  | *PQL METHOD | ANALYZED E            | Y NOTES  |  |
| 1,1,1-Trichlomethane      | <5.            | μg/L  | 1.0 | 5 EPA 8240  | 10/20/95 I            | G        |  |
| Carbon tetrachloride      | <5.            | μg/L  | 1.0 | 5 EPA 8240  | 10/20/95 I            | G        |  |
| Vinyl acetate             | <15.           | μg/L  | 1.0 | 15 EPA 8240 | 10/20/95 I            | G        |  |
| Branodichloromethane      | ⋖5.            | μg/L  | 1.0 | 5 EPA 8240  | 10/20/95 I            | G        |  |
| 1,2-Dichloropropane       | ⋖5.            | μg/L  | 1.0 | 5 EPA 8240  | 10/20/95 I            | G        |  |
| cis-1,3-Dichloropropene   | <5.            | μg/L  | 1.0 | 5 KPA 8240  | 10/20/95 I            | G        |  |
| Trichloroethene           | <5.            | μg/L  | 1.0 | 5 KPA 8240  | 10/20/95 I            | G        |  |
| Dibronochloromethane      | ⋖5.            | μg/L  | 1.0 | 5 EPA 8240  | 10/20/95 I            | G        |  |
| 1,1,2-Trichloroethane     | <b>&lt;</b> 5. | μg/L  | 1.0 | 5 KPA 8240  | 10/20/95 I            | G        |  |
| Benzene                   | ⋖5.            | μg/L  | 1.0 | 5 EPA 8240  | 10/20/95 I            | G        |  |
| trans-1,3-Dichloropropene | ⋖5.            | μg/L  | 1.0 | 5 EPA 8240  | 10/20/95 I            | G        |  |
| Branoform                 | <b>45</b> .    | μg/L  | 1.0 | 5 EPA 8240  | 10/20/95 I            | G        |  |
| 2,4,4-Trimethyl-2-pentene | <10.           | μg/L  | 1.0 | 10 KPA 8240 | 10/20/95 I            | G        |  |
| 2,4,4-Trimethyl-1-pentene | <10.           | μg/L  | 1.0 | 10 EPA 8240 | 10/20/95 I            | G        |  |
| 4-Methyl-2-pentanone      | <15.           | μg/L  | 1.0 | 15 EPA 8240 | 10/20/95 I            | G        |  |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: OLIN-TN/STEVE MORROW SMITH/RICK SACKS PII/CHRIS SELLSTONE



Lab Number : WL-1644-11 Report Date: 11/06/95

PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON

CLIN CHEMICALS

51 EAMES STREET

WILMINGTON, MA 01887

#### REPORT OF ANALYTICAL RESULTS

Page 33 of 33

| SAMPLE DESCRIPTION                | MATRIX |         |     | SAMPLED BY  | SAMPLED DATE RECEIVED |    |          |
|-----------------------------------|--------|---------|-----|-------------|-----------------------|----|----------|
| TRIP BLANK                        | Aqu    | Aqueous |     | R. MEHALICK | 10/19/95              |    | 10/19/95 |
| PARAMETER                         | RESULT | UNITS   | DF  | *PQL METHOD | ANALYZED              | BY | NOTES    |
| 2-Hexanone                        | <15.   | μg/L    | 1.0 | 15 KPA 8240 | 10/20/95              | IG |          |
| Tetrachloroethene                 | ⋖5.    | μg/L    | 1.0 | 5 KPA 8240  | 10/20/95              | IG |          |
| 1,1,2,2-Tetrachloroethane         | ⋖5.    | μg/L    | 1.0 | 5 EPA 8240  | 10/20/95              | LG |          |
| Toluene                           | <5.    | μg/L    | 1.0 | 5 EPA 8240  | 10/20/95              | IG |          |
| Chlorobenzene                     | <5.    | μg/L    | 1.0 | 5 EPA 8240  | 10/20/95              | LG |          |
| Ethylbenzene                      | ⋖5.    | μg/L    | 1.0 | 5 EPA 8240  | 10/20/95              | LG |          |
| Styrene                           | ⋖5.    | μg/L    | 1.0 | 5 EPA 8240  | 10/20/95              | LG |          |
| Total Xylenes                     | ⋖.     | μg/L    | 1.0 | 5 EPA 8240  | 10/20/95              | LG |          |
| 1,2-Dichloroethane-d4(% Recovery) | 103.   | ¥       | 1.0 | EPA 8240    | 10/20/95              | LG |          |
| Toluene-d8 (% Recovery)           | 97.    | *       | 1.0 | EPA 8240    | 10/20/95              | LG |          |
| p-Bromofluorobenzene (% Recovery) | 92.    | ¥       | 1.0 | EPA 8240    | 10/20/95              | LG |          |

<sup>\*</sup> PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp (dw) /jfg/lag/sra

CC: CLIN-TN/STEVE MORROW SMITH/RICK SACKS PIT/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5 Westbrook, ME 04098 TEL: 207-874-2400